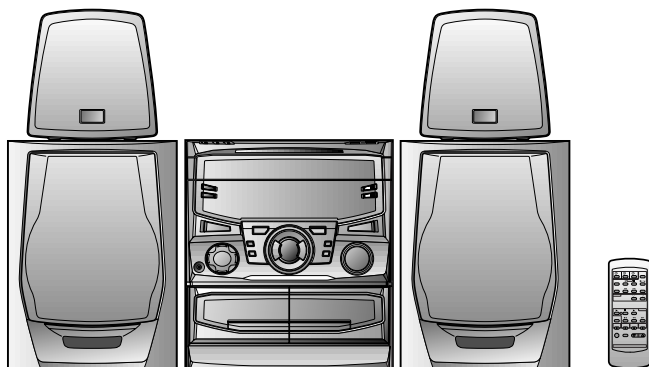


SHARP SERVICE MANUAL

No. S5934CDC831W/



CD-C831W

CD-C831W mini component system consisting of CD-C831W (Main unit), CP-C831 (Front speaker) and GBOXS0025AWM1 (Surround speaker).

COMPACT
disc
DIGITAL AUDIO

SAVING ENERGY
STAND-BY POWER
CONSUMPTION **0.8w**

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

- 1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITHOUT A COMPACT DISC IN POSITION AND THE PICK-UP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICK-UP LENS.
- 2-THE LASER POWER OUTPUT OF THE PICK-UP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRE-SET BEFORE SHIPMENT.
DO NOT ATTEMPT TO RE-ADJUST THE LASER PICK-UP UNIT DURING REPLACEMENT OR SERVICING.
- 3-UNDER NO CIRCUMSTANCES STARE INTO THE PICK-UP LENS AT ANY TIME.
- 4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

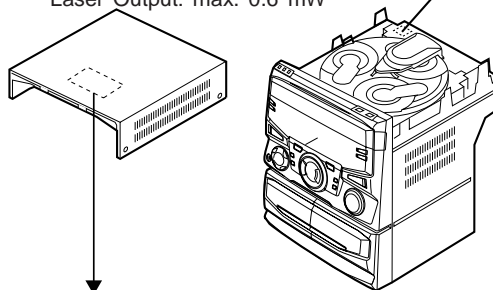
CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Mini Component System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



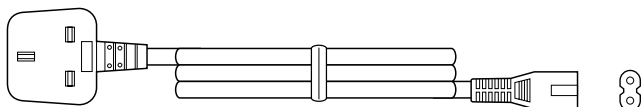
CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-ÜSYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ TUBOTA SÄTEESEEN ALAKA KATSO SITA OPTISEN LAITTEEN LAPSI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRÄKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-ÜSYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

VARO ! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

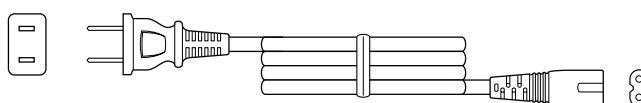
VOLTAGE SELECTION

The voltage selector is located on the AC voltage selector box. If adjustment is necessary, use a screwdriver in order to turn the selector in either direction until the correct voltage figure is displayed in the window next to the adjustment screw.

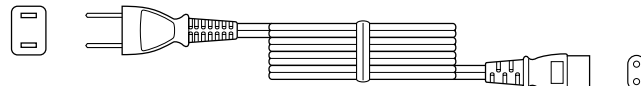
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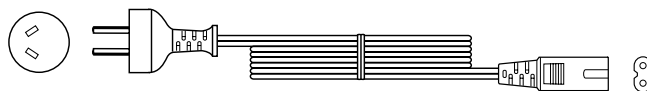
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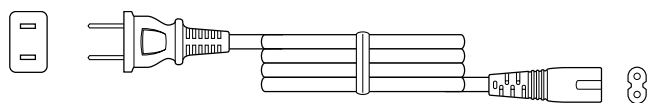
92LCöRDZ1652A



QACCL0002AW00



92LCöRD577B



92LPLUG027



92LPLUG155A



Figure 2 AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-C831W

● General

Power source: AC 110/127/220/230-240 V,
50/60 Hz

Power consumption: 89 W

Dimensions: Width; 270 mm (10-5/8")
Height; 300 mm (11-13/16")
Depth; 351 mm (13-13/16")

Weight: 6.4 kg (14.1 lbs.)

● Amplifier section

Output power: MPO; 144 W (72 W + 72 W)
(10 % T.H.D.)
RMS; 80 W (40 W + 40 W)
(10 % T.H.D.)
RMS; 66 W (33 W + 33 W)
(0.9 % T.H.D.)

Input terminal: Video/Auxiliary (audio signal);
500 mV/47 kohms

Output terminals: Front speakers; 6 ohms
Surround Speakers; 16 ohms
Headphones; 16-50 ohms
(recommended; 32 ohms)

● Compact disc player section

Type: 3-disc multi-play compact disc
player

Signal readout: Non-contact, 3-beam semi-
conductor laser pickup

D/A Converter: 1-bit D/A converter

Frequency response: 20 - 20,000 Hz

Dynamic range: 90 dB (1 kHz)

● Tuner section

Frequency range: FM; 88 - 108 MHz
AM; 531 - 1,602 kHz

● Cassette deck section

Type: Compact cassette tape

Frequency response: 50 - 14,000 Hz (Normal tape)

Motor: DC motor with electronic
governor x 1

Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/
playback)

Bias and erasure system: AC

Tape speed: 4.76 cm/sec. (1-7/8 ips.)

Wow and flutter: 0.15 % (WRMS)

Heads: TAPE-1: Playback x 1
TAPE-2: Record/Playback x 1
Erase x 1

CP-C831

● Front speaker section

Type: 2-way [13 cm (5-1/4") woofer
and 5 cm (2") tweeter]

Maximum input power: 60 W

Rated input power: 30 W

Impedance: 6 ohms

Dimensions: Width; 220 mm (8-11/16")
Height; 300 mm (11-13/16")
Depth; 217 mm (8-9/16")

Weight: 2.6 kg (5.7 lbs.)/each

GBOXS0025AWM1

● Surround speaker section

Type: 10 cm (4") full range speaker

Maximum input power: 20 W

Rated input power: 10 W

Impedance: 16 ohms

Dimensions: Width; 170 mm (6-3/4")
Height; 170 mm (6-3/4")
Depth; 88 mm (3-1/2")

Weight: 0.4 kg (0.9 lbs.)/each

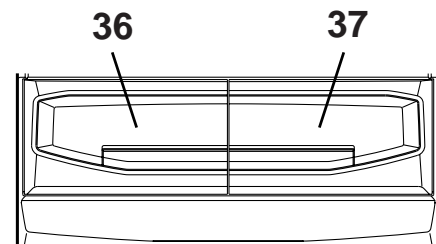
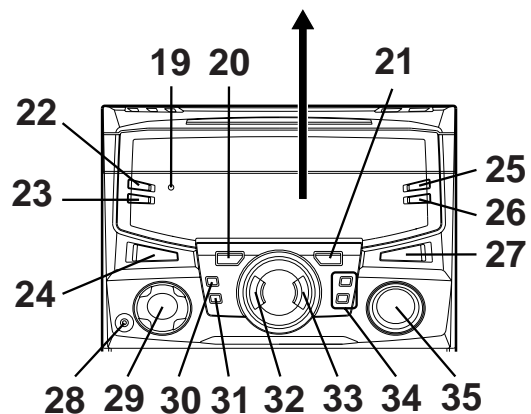
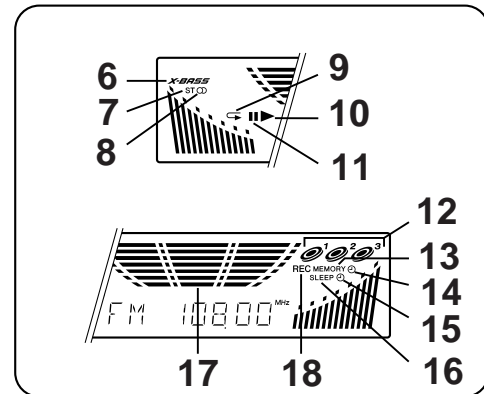
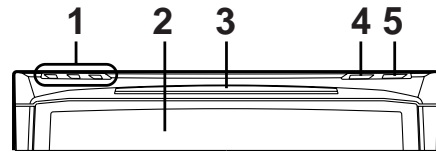
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-C831W

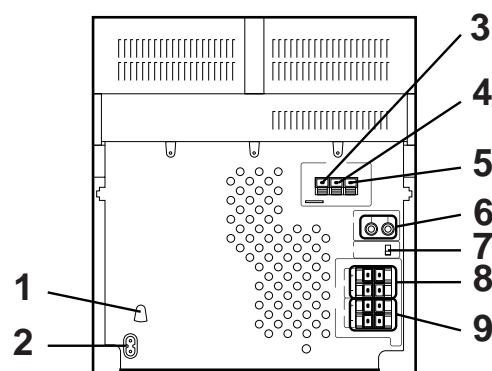
■ Front Panel

1. Disc Number Selector Buttons
2. Disc Tray
3. Multi Indicator
4. Disc Skip Button
5. Open/Close Button
6. Extra Bass Indicator
7. FM Stereo Mode Indicator
8. FM Stereo Indicator
9. (CD) Repeat Indicator
10. (CD) Play Indicator
11. (CD) Pause Indicator
12. (CD) Disc Number Indicators
13. (CD/TUNER) Memory Indicator
14. Timer Play Indicator
15. Timer Record Indicator
16. Sleep Indicator
16. Dynamic PTY Indicator
17. Spectrum Analyzer/ Volume Level Indicator
18. (TAPE 2) Record Indicator
19. Timer Set Indicator
20. (CD) Track Down/Review Button
(TUNER) Preset Down Button
(TAPE 2) Rewind Button
21. (CD) Track Up/Cue Button
(TUNER) Preset Up Button
(TAPE 2) Fast Forward Button
22. Timer/Sleep Button
23. Clock Button
24. On/Stand-by Button
25. Equalizer Mode Selector Button
26. Dimmer Button
27. Extra Bass/Demo Mode Button
28. Headphone Socket
29. Function Selector Buttons
30. (TAPE 2) Record Pause Button
31. Memory/Set Button
32. (CD/TAPE) Stop Button
33. (TAPE) Play Button
(CD) Play/Repeat Button
34. Tuning and Time Up/Down Buttons
35. Volume Up/Down Buttons
36. (TAPE 1) Cassette Compartment
37. (TAPE 2) Cassette Compartment



■ Rear Panel

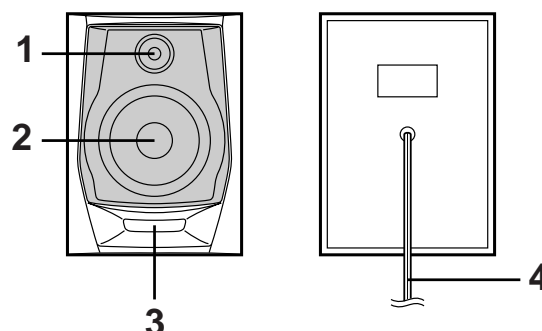
1. AC Voltage Selector
2. AC Power Input Socket
3. AM Aerial Terminal
4. Aerial Earth Terminal
5. FM 75 Ohms Aerial Socket
6. Video/Auxiliary (Audio Signal) Input Sockets
7. Span Selector Switch
8. Surround Speaker Terminals
9. Front Speaker Terminals



CP-C831

■ Front Speaker

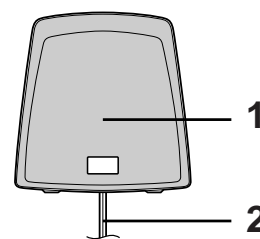
1. Tweeter
2. Woofer
3. Bass Reflex Ducts
4. Speaker Wire



GBOXS0025AWM1

■ Surround Speaker

1. Full Range Speaker
2. Speaker Wire



■ Remote Control

1. Remote Control Transmitter LED

● CD Control section

2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button

● Tuner control section

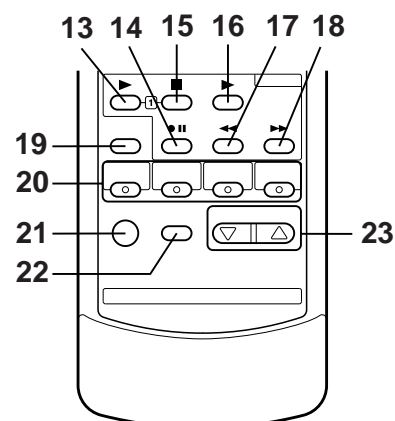
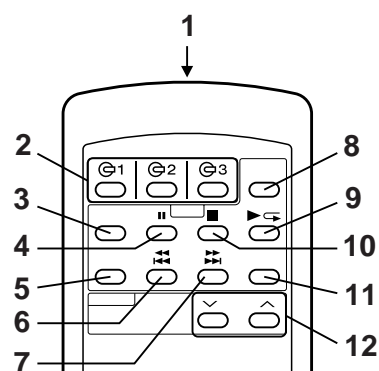
12. Preset Up/Down Buttons

● Tape control section

13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

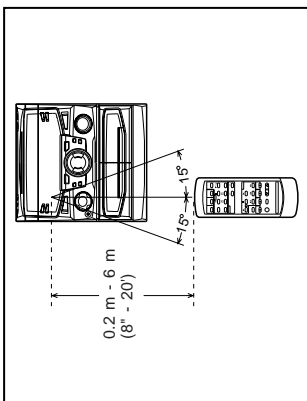
● Common section

19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. On/Stand-by Button
22. Extra Bass Button
23. Volume Up/Down Buttons



OPERATION MANUAL

PREPARATION FOR USE



■ Remote control

Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

■ AM/FM interval (span)

The International Telecommunication Union (ITU) has established that member countries should maintain either a 10 kHz or a 9 kHz interval between broadcasting frequencies of any AM station. The illustration shows the 9 kHz interval zones (regions 1 and 3), and the 10 kHz interval zone (region 2).

Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to AM tuning interval (span) of your area.

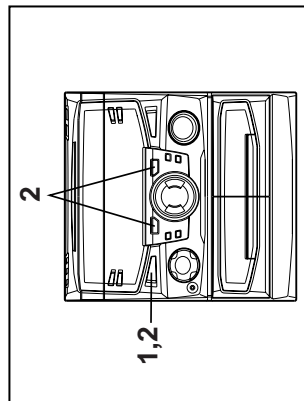
To change the tuning zone:

- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Set the SPAN SELECTOR switch to "50/9" for 9 kHz AM interval (50 kHz FM interval), and "100/10" for 10 kHz AM interval (100 kHz FM interval).
- 3 Whilst pressing down the $\blacktriangleleft/\blacktriangleleft$ button and the $\blacktriangleright/\blacktriangleright$ button, hold down the ON/STAND-BY button for at least 1 second.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
 - If the display is not correct.
 - If the operation is not correct.
- 1 Press the ON/STAND-BY button to enter the stand-by mode.
 - 2 Whilst pressing down the $\blacktriangleleft/\blacktriangleleft$ button and the $\blacktriangleright/\blacktriangleright$ button, hold down the ON/STAND-BY button for at least 1 second.

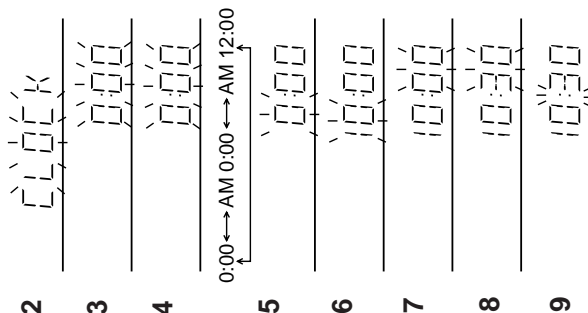
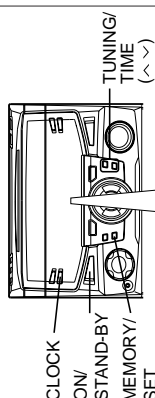
Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

SETTING THE CLOCK

(Main unit operation)

In this example, the clock is set for the 24-hour (0:00) system.



- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Press the CLOCK button.
- 3 Within 5 seconds, press the MEMORY/SET button.
- 4 Press the TUNING/TIME (\blacktriangleleft or \blacktriangleright) button to select the time display mode.
 "0:00" \rightarrow The 24-hour display will appear.
 (0:00 - 23:59)
 "AM 12:00" \rightarrow The 12-hour display will appear.
 (AM or PM 12:00 - 11:59)
 "AM 0:00" \rightarrow The 12-hour display will appear.
 (AM or PM 0:00 - 11:59)
 ● Note that this can only be set when the unit is first installed or it has been reset.
- 5 Press the MEMORY/SET button.
- 6 Press the TUNING/TIME (\blacktriangleleft or \blacktriangleright) button to adjust the hour.
- Press the TUNING/TIME (\blacktriangleleft or \blacktriangleright) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".
- 7 Press the MEMORY/SET button.
- 8 Press the TUNING/TIME (\blacktriangleleft or \blacktriangleright) button to adjust the minutes.
- Press the TUNING/TIME (\blacktriangleleft or \blacktriangleright) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".
- 9 Press the MEMORY/SET button.
- The clock starts operating from "0" seconds. (Seconds are not displayed.)

To see the time display:

Press the CLOCK button.

- The time display will appear for about 5 seconds.

Note:

- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

- 1 Press the CLOCK button.
- 2 Within 5 seconds, press the MEMORY/SET button.
- 3 Perform steps 6 - 9 above.

To change the time display mode:

- 1 Perform steps 1 - 2 in the section "RESETTING THE MICRO-COMPUTER".
- 2 Perform steps 1 - 9 above.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-C831W

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x4	7-1
2	Side Panel (Left/right)	1. Screw (B1) x6 2. Hook (B2) x2	7-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook (C1) x3 3. Hook (C2) x2 4. Socket (C3) x2	7-2
4	Back Board	1. Screw (D1) x6	7-2
5	Tuner PWB	1. Screw (E1) x3 2. Socket (E2) x1	8-1
6	Main PWB	1. Screw (F1) x4 2. Socket (F2) x4 3. Flat Wire (F3) x1 4. Tip Wire (F4) x1 5. Flat Cable (F5) x1	8-1
7	Front Panel	1. Screw (G1) x1 2. Socket (G2) x1 3. Hook (G3) x2	8-1
8	Headphones PWB	1. Screw (H1) x1 2. Support Bracket (H2) x1	8-2
9	Display PWB/ Switch PWB	1. Screw (J1) x12 2. Hook (J2) x2 3. Socket (J3) x1	8-2
10	Tape Mechanism	1. Open the cassette holder. 2. Screw (K1) x5	8-2
11	Turntable	1. Screw (L1) x1 2. Cover (L2) x1	8-3
12	Disc Tray	1. Screw (M1) x2 2. Guide (M2) x2	8-3
13	CD Servo PWB (Note 2)	1. Screw (N1) x1 2. Socket (N2) x4	8-4
14	CD Changer Mechanism	1. Screw (P1) x4	8-5
15	CD Mechanism	1. Screw (Q1) x1	8-5

Note 1:

How to open the changer manually. (Fig. 7-3)

1. Turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state.
After that, push forward the CD player base.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pickup from electrostatic damage.

CD-C831W

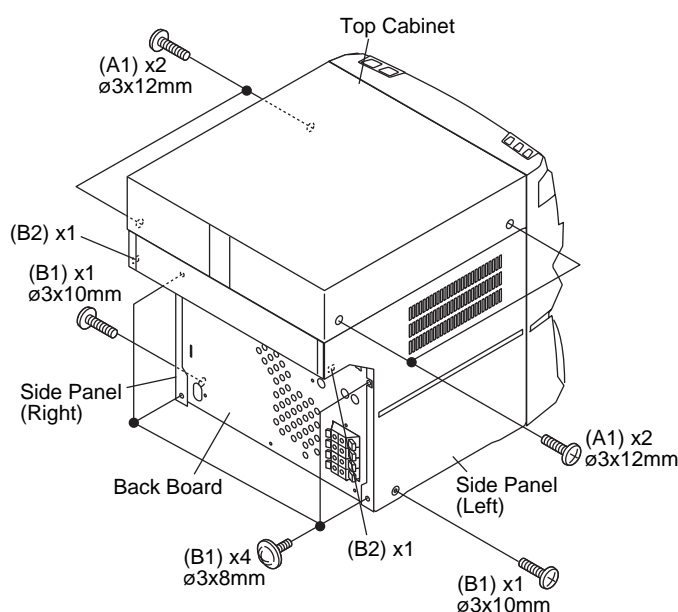


Figure 7-1

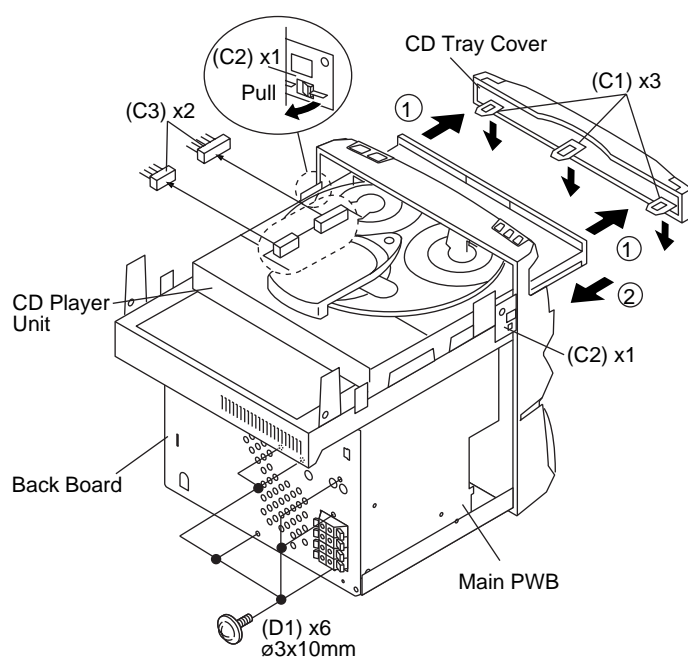


Figure 7-2

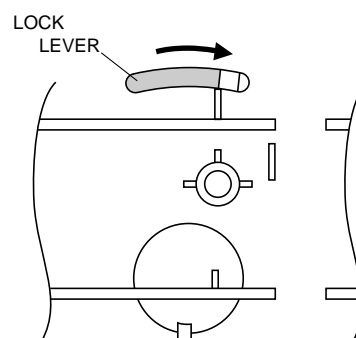


Figure 7-3

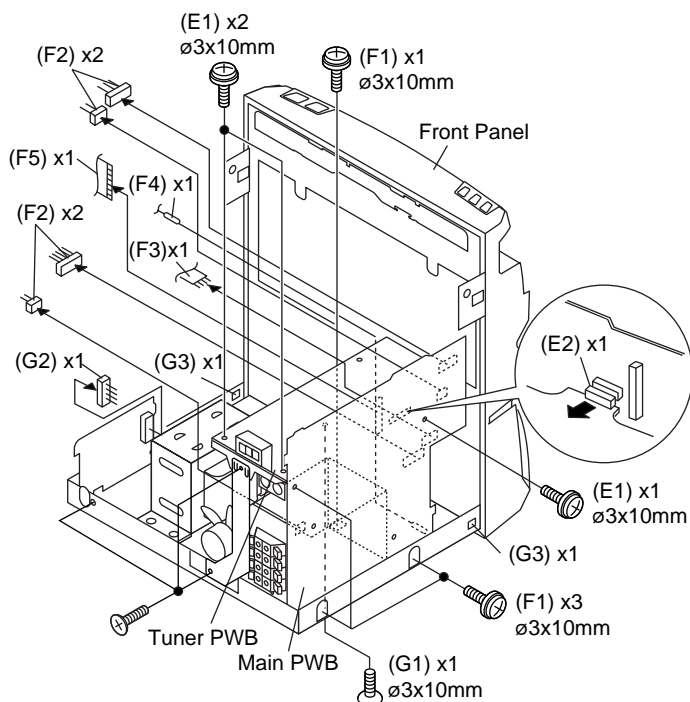


Figure 8-1

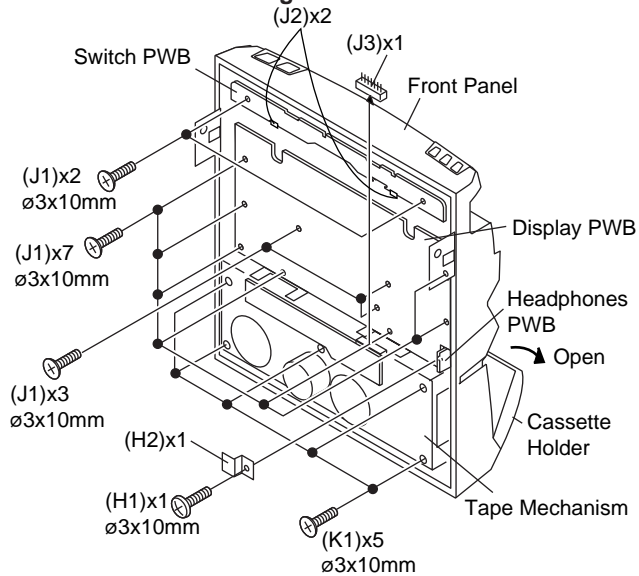


Figure 8-2

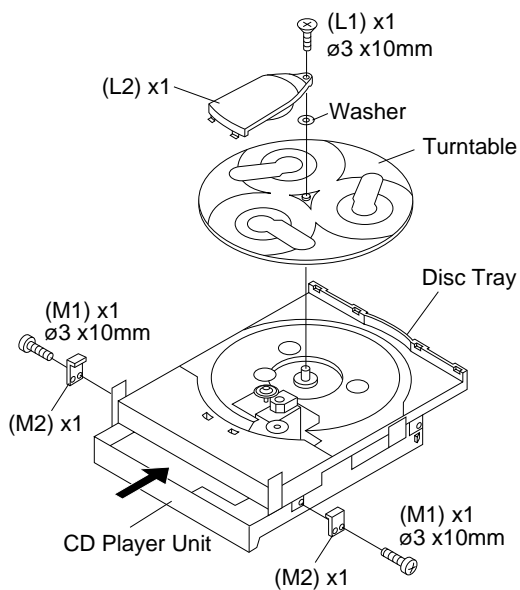


Figure 8-3

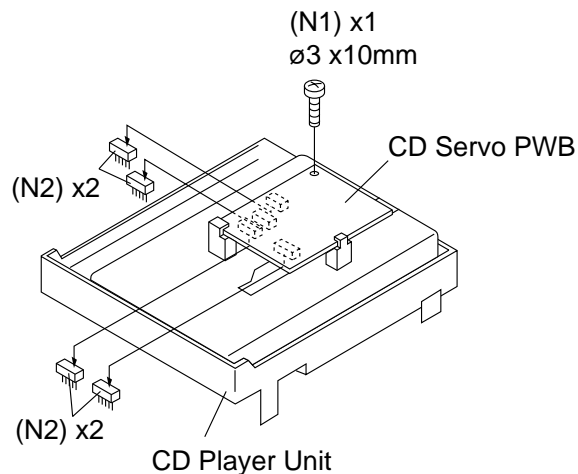


Figure 8-4

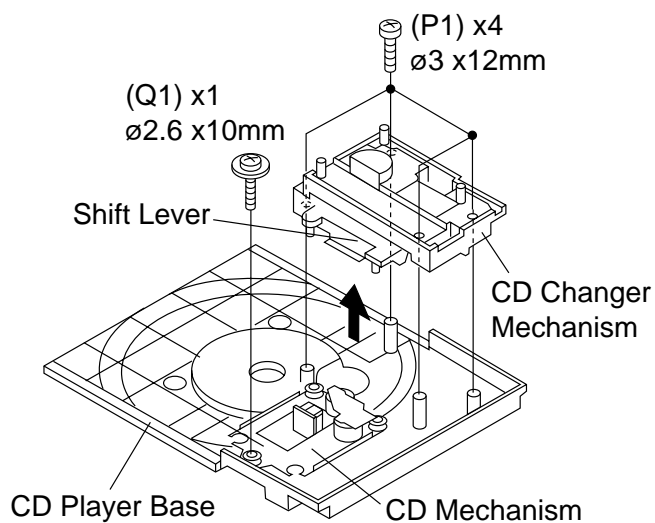


Figure 8-5

Be Careful when installing the CD changer mechanism. Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

CP-C831			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Front Panel (A1) x1 2. Tip (A2) x2 3. Screw (A3) x6	9-1

Note:

The Surround speakers can be easily disassembled. Therefore the disassembling method is not described. For details refer to the disassembling drawing in the Parts Guide.

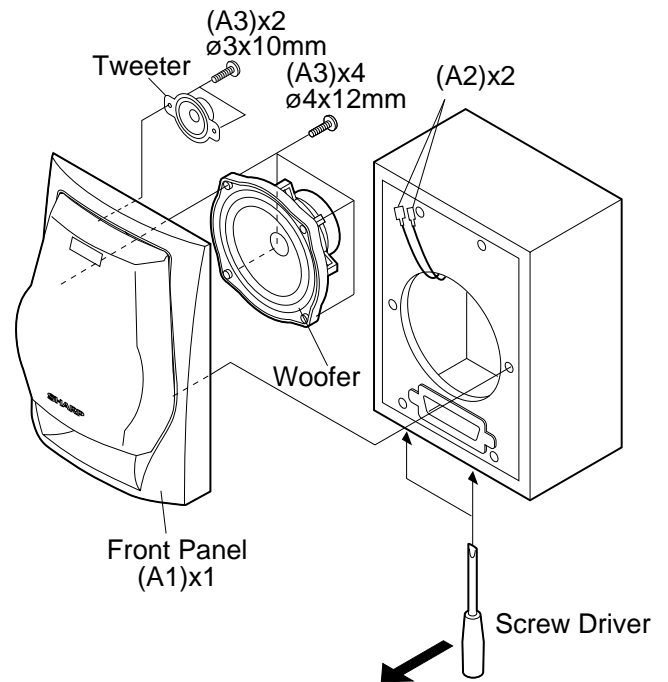


Figure 9-1

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3, 11, 12, 13, 14 and 15 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 9-2)

1. Remove the screws (A1) x 2 pcs., to remove the loading motor.

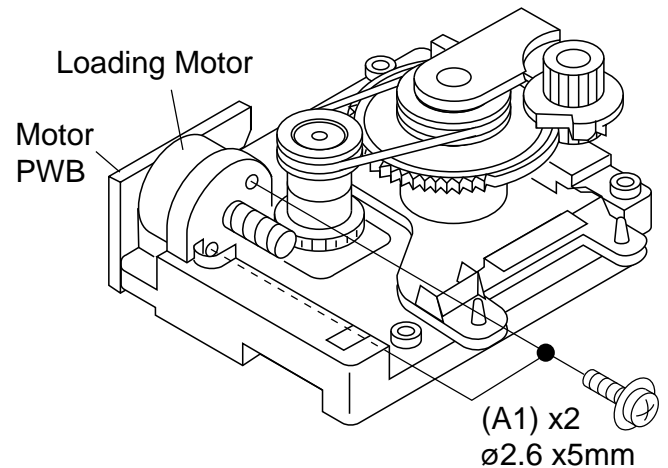


Figure 9-2

How to remove the pickup (See Fig. 9-3)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pickup from electrostatic damage.

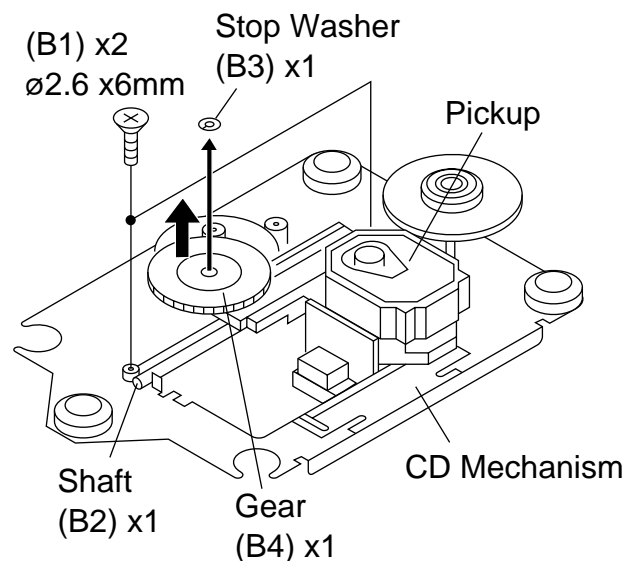


Figure 9-3

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 100 g.cm
Fast forward: TW-2231	—	50 to 100 g.cm
Rewind: TW-2231	—	50 to 100 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	VRM1	3,000 ± 30 Hz	Speaker terminal

TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

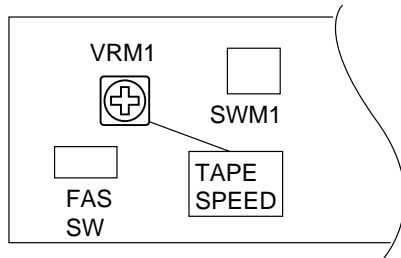
Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fH): T302	*1

*1. Input: Antenna, Output: TP302

*2. Input: Antenna, Output: TP301

TAPE MECHANISM PWB



• FM

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.

2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually

• FM Mute Level

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (25 dBμV)	98.00 MHz	VR351	Input: Antenna Output: Speaker Terminal

CD ERROR CODE DESCRIPTION

When a malfunction occurs during CD operation, an error code will be displayed to identify the function in CD operation which failed.

Error	State Code
0001	Cannot detect pickup-in SW
0101	Tray close operation error
0105	Tray close operation error
0201	Tray open operation error
0203	Tray open operation error
0304	Disc skip operation error
0305	Disc skip operation error
0307	Disc skip operation error

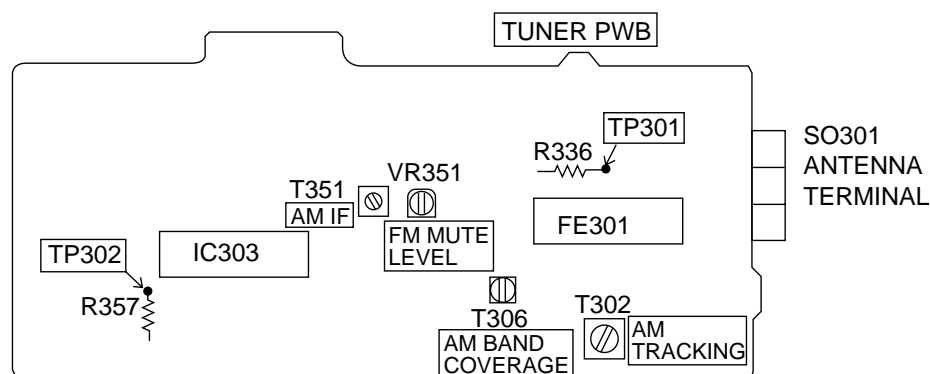


Figure 10 ADJUSTMENT POINTS

TEST MODE

• Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<REC. PAUSE> + <DISC. SKIP> + <POWER> TEST: CD operation test

• TEST mode

Function — CD test mode

Setting of TEST mode

Indication of CD TST mode (Fig. 11-1)

OPEN/CLOSE operation is manual operation.

The pickup can be moved by using the (▶▶) or (◀◀) key.

IL is not performed.

<MEMORY> LASER ON — <MEMORY> Tracking on the spot. SERVO OFF PLAY — <MEMORY> Tracking on the spot. SERVO ON PLAY — <STOP> STOP

<PLAY> key input — TOC. IL is performed, and the ordinary PLAY is performed. — Press <STOP> key. — Stop
If the following key is pressed during PLAY, it is possible to specify directly any Track No.
<Disc Number 1> key: Track 4
<Disc Number 2> key: Track 9
<Disc Number 3> key: Track 15

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.

VOL. --- Last memory

BAL. --- CENTER

R.GEQ. --- FLAT

X-BAS --- OFF

Canceling method - POWER OFF

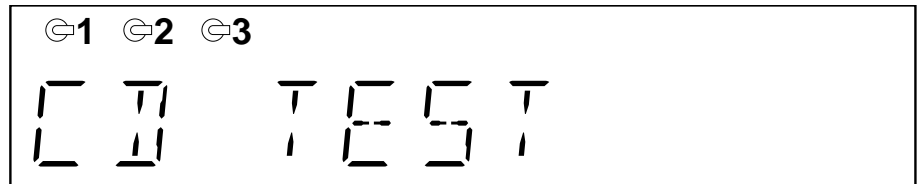


Figure 11-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 11-2)
2. Tracking offset (Fig. 11-3)
3. E/F balance (tracking error balance) (Fig. 11-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

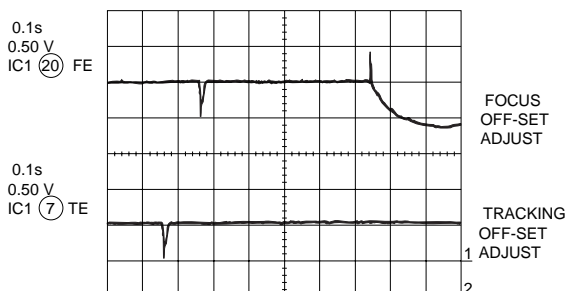


Figure 11-2

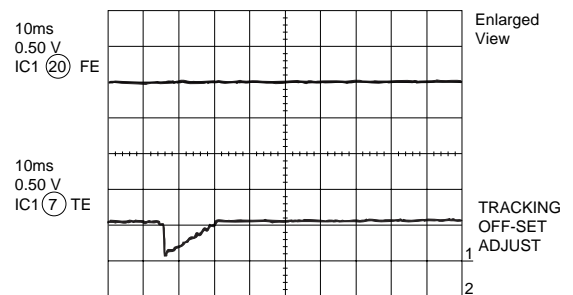


Figure 11-3

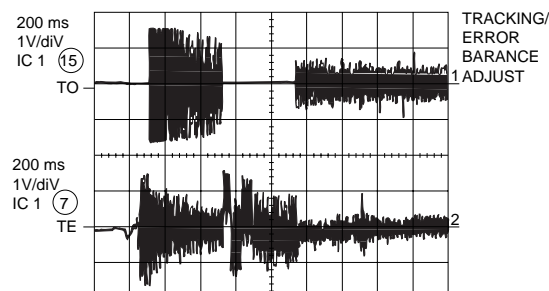


Figure 11-4

NOTES ON SCHEMATIC DIAGRAM

- Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

- Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (TH), (RH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. In the tuner section,

() indicates AM

< > indicates FM stereo

2. In the main section, a tape is being played back.

3. In the deck section, a tape is being played back.

() indicates the record state.

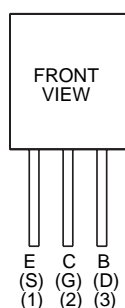
4. In the power section, a tape is being played back.

5. In the CD section, the CD is stopped.

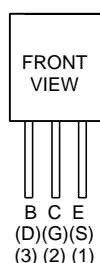
- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW601	SPAN SELECTOR	100/10 —50/9
SW701	ON/STAND-BY	ON—OFF
SW703	CLOCK	ON—OFF
SW704	TIMER/SLEEP	ON—OFF
SW705	DISC 1	ON—OFF
SW706	DISC 2	ON—OFF
SW707	DISC 3	ON—OFF
SW708	DISC SKIP	ON—OFF
SW709	OPEN/CLOSE	ON—OFF
SW710	REV	ON—OFF
SW711	REC PAUSE	ON—OFF
SW712	MEMORY/SET	ON—OFF
SW713	STOP	ON—OFF
SW714	TUNER/BAND	ON—OFF

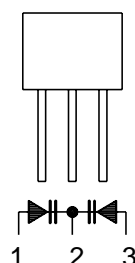
REF. NO	DESCRIPTION	POSITION
SW715	VIDEO	ON—OFF
SW716	TAPE	ON—OFF
SW717	CD	ON—OFF
SW721	DISPLAY MODE	ON—OFF
SW722	FF	ON—OFF
SW723	TUNING UP	ON—OFF
SW724	TUNING DOWN	ON—OFF
SW725	PLAY	ON—OFF
SW726	VOLUME DOWN	ON—OFF
SW727	VOLUME UP	ON—OFF
SW728	X-BASS/DEMO	ON—OFF
SW729	EQUALIZER	ON—OFF
SW730	DIMMER	ON—OFF
SW801	VOLTAGE SELECTOR	110/127/220/ 230—240V
SWM 3	FOOL PROOF	ON—OFF
SWM 4	F.A.S.	ON—OFF
SWM 5	CAM	ON—OFF



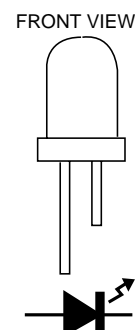
2SA1015 GR KTA1266 GR
 2SA1318 KTA1271 Y
 2SC2389 SE KTA1273 Y
 2SC3331 KTA1274 Y
 KRC102 M KTD2058 Y
 KRC104 M KTC3199 GR
 KRC107 M KTC3203 Y



2SA1318



SVC348S



L1154GT4
 SLI342YCB
 SLI342DCB
 SLI342UCB
 SLI342UCB
 SLI342YCB

Figure 12 TYPES OF TRANSISTOR AND LED

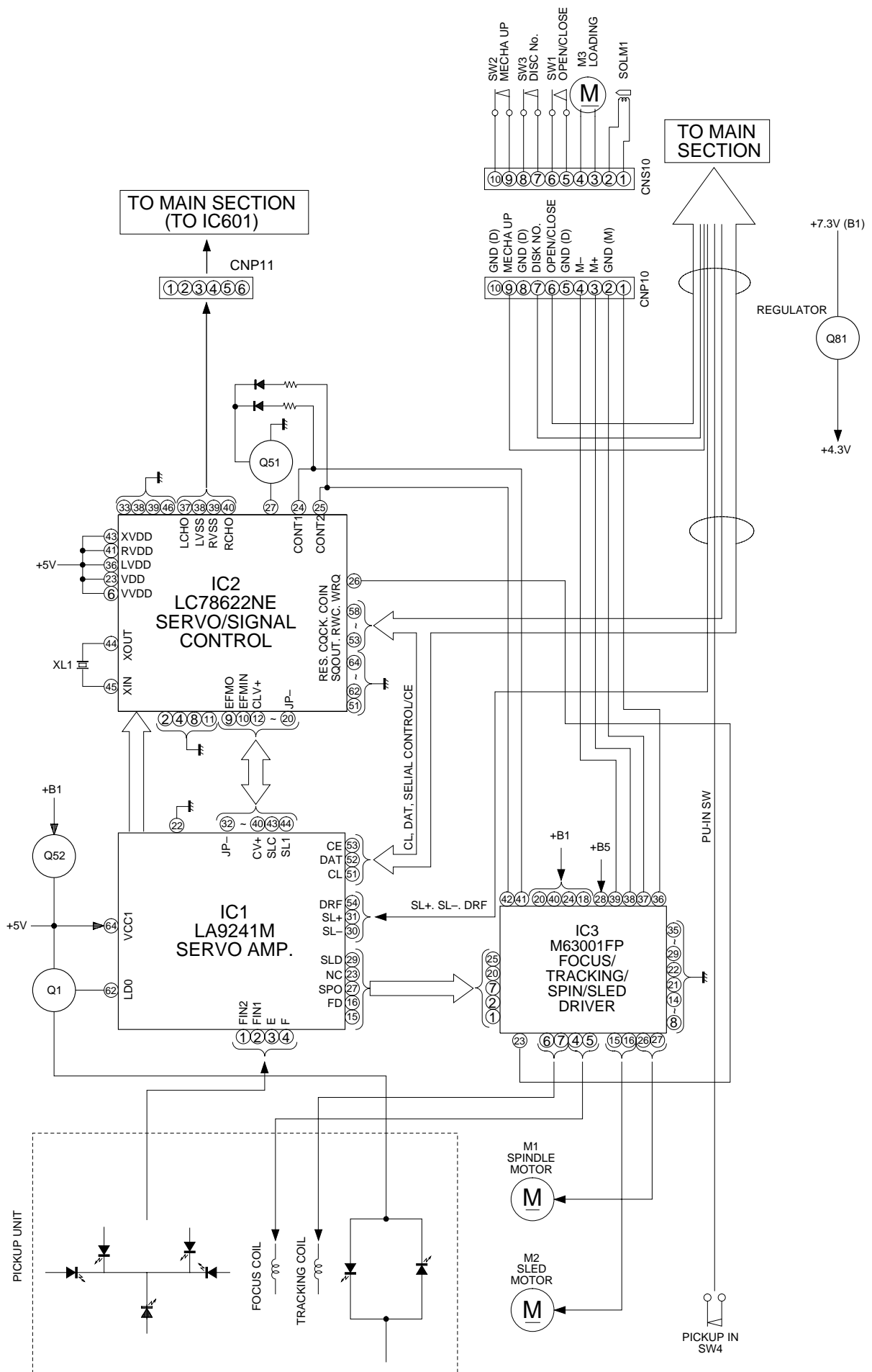


Figure 13 BLOCK DIAGRAM (1/3)

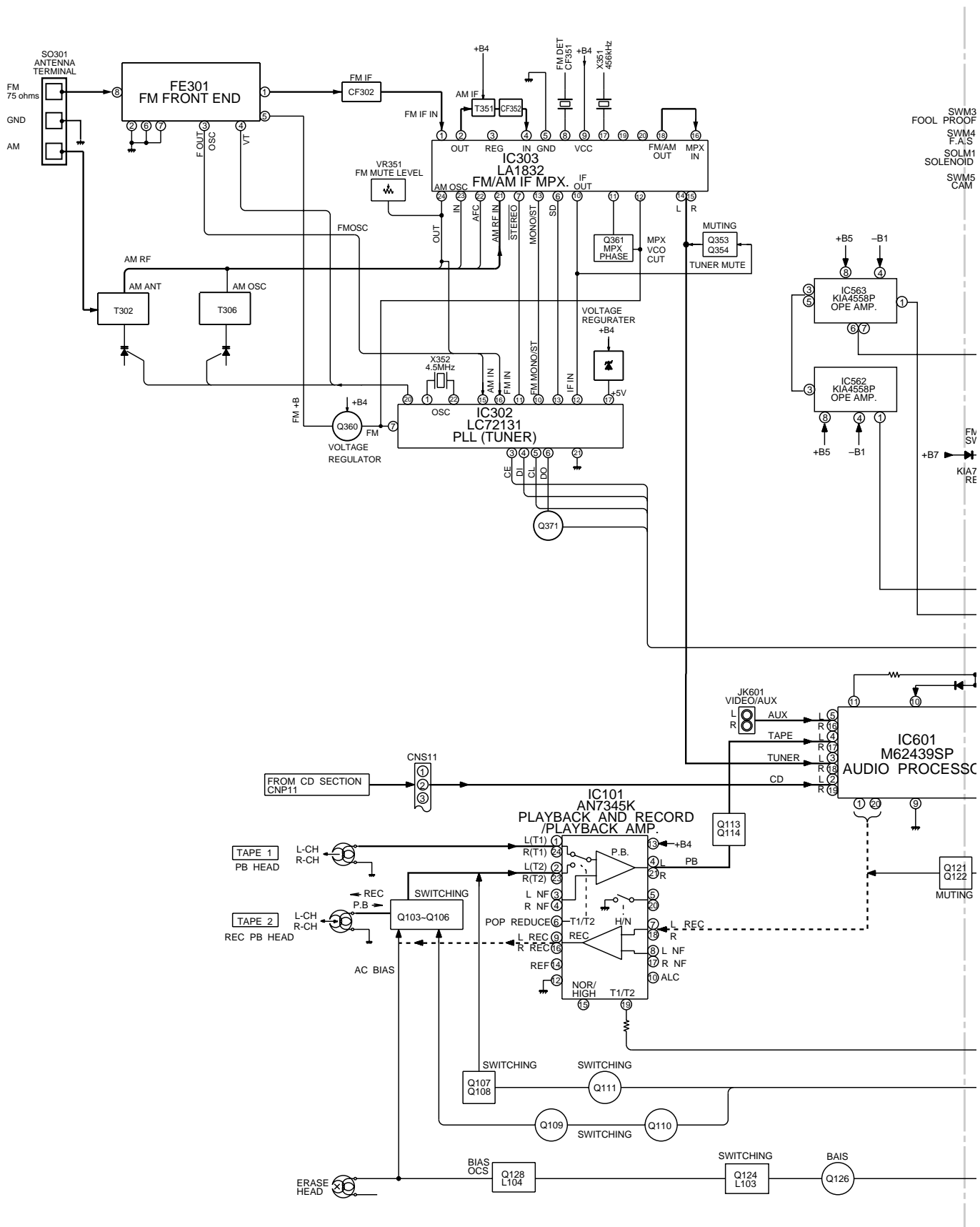


Figure 14 BLOCK DIAGRAM (2/3)

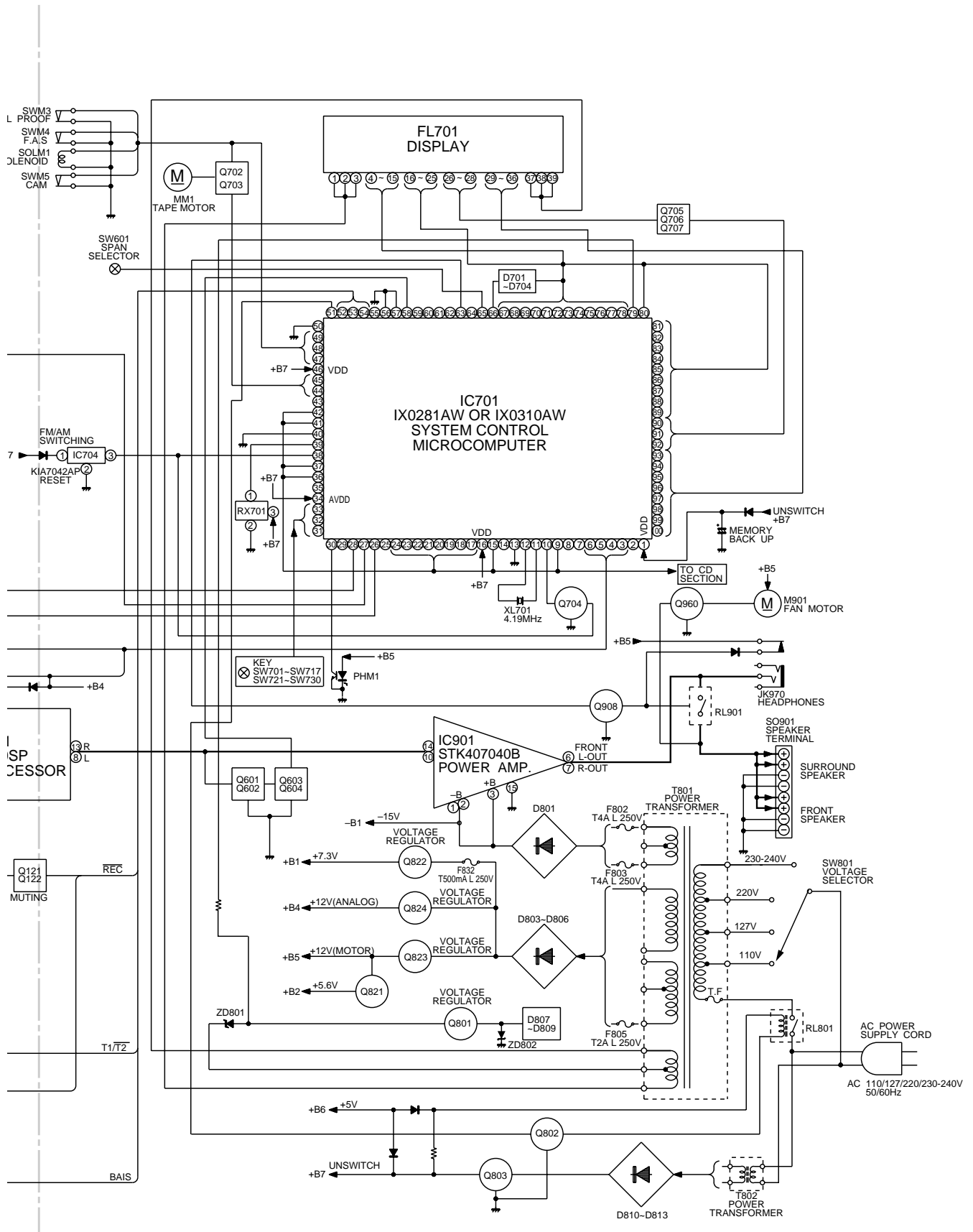
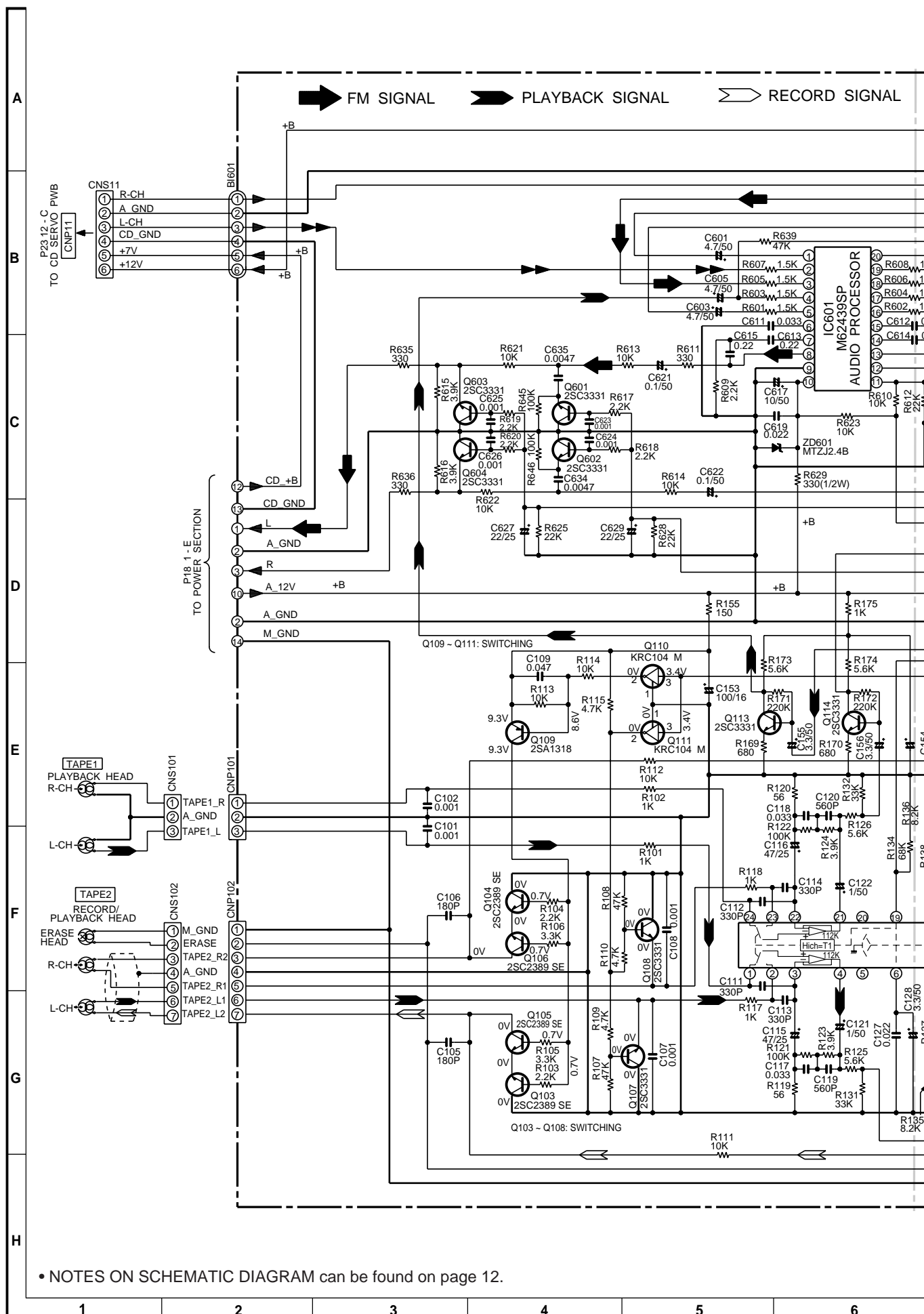


Figure 15 BLOCK DIAGRAM (3/3)





7	8	9	10	11	12
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- 17 -

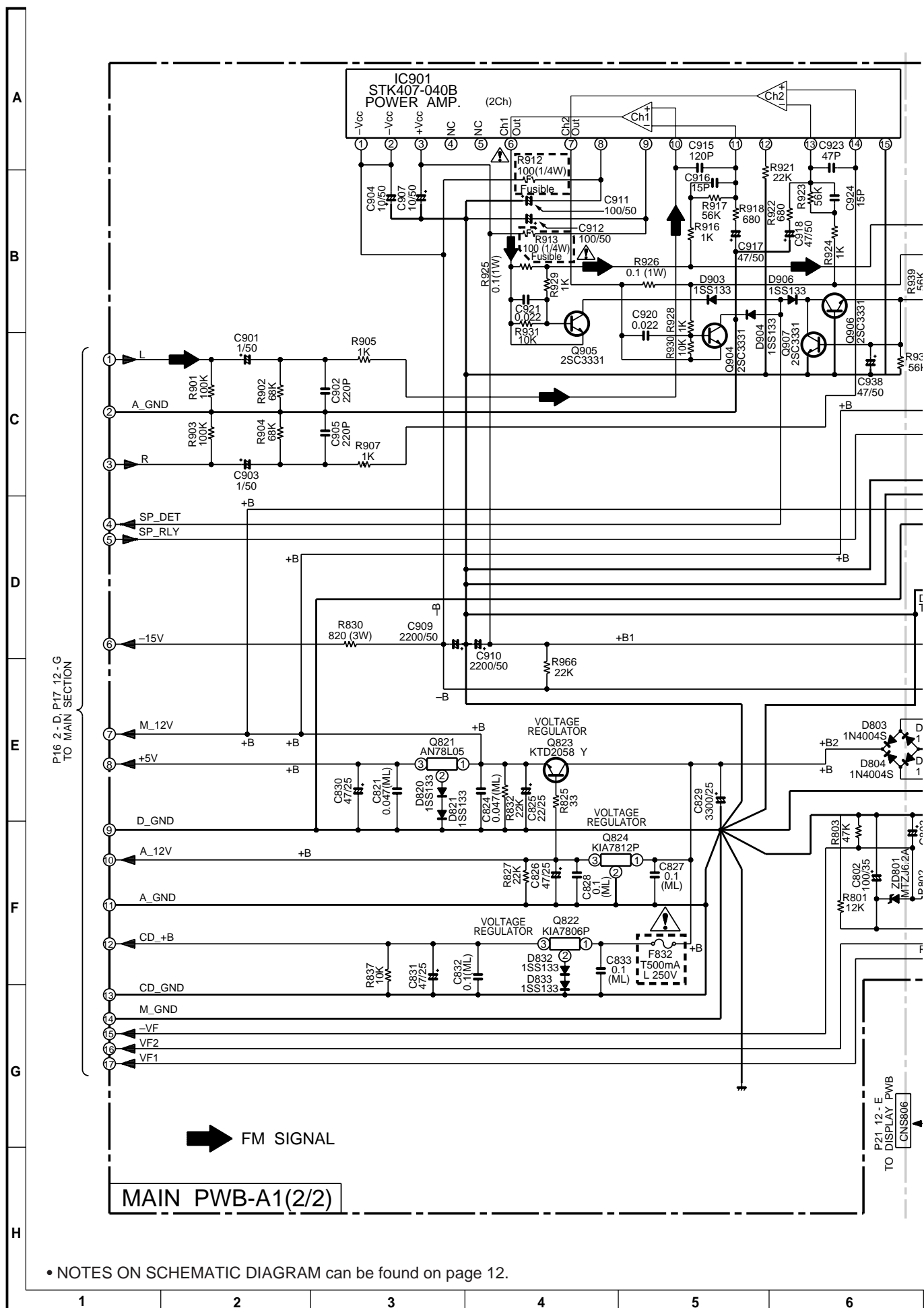


Figure 18 SCHEMATIC DIAGRAM (3/9)

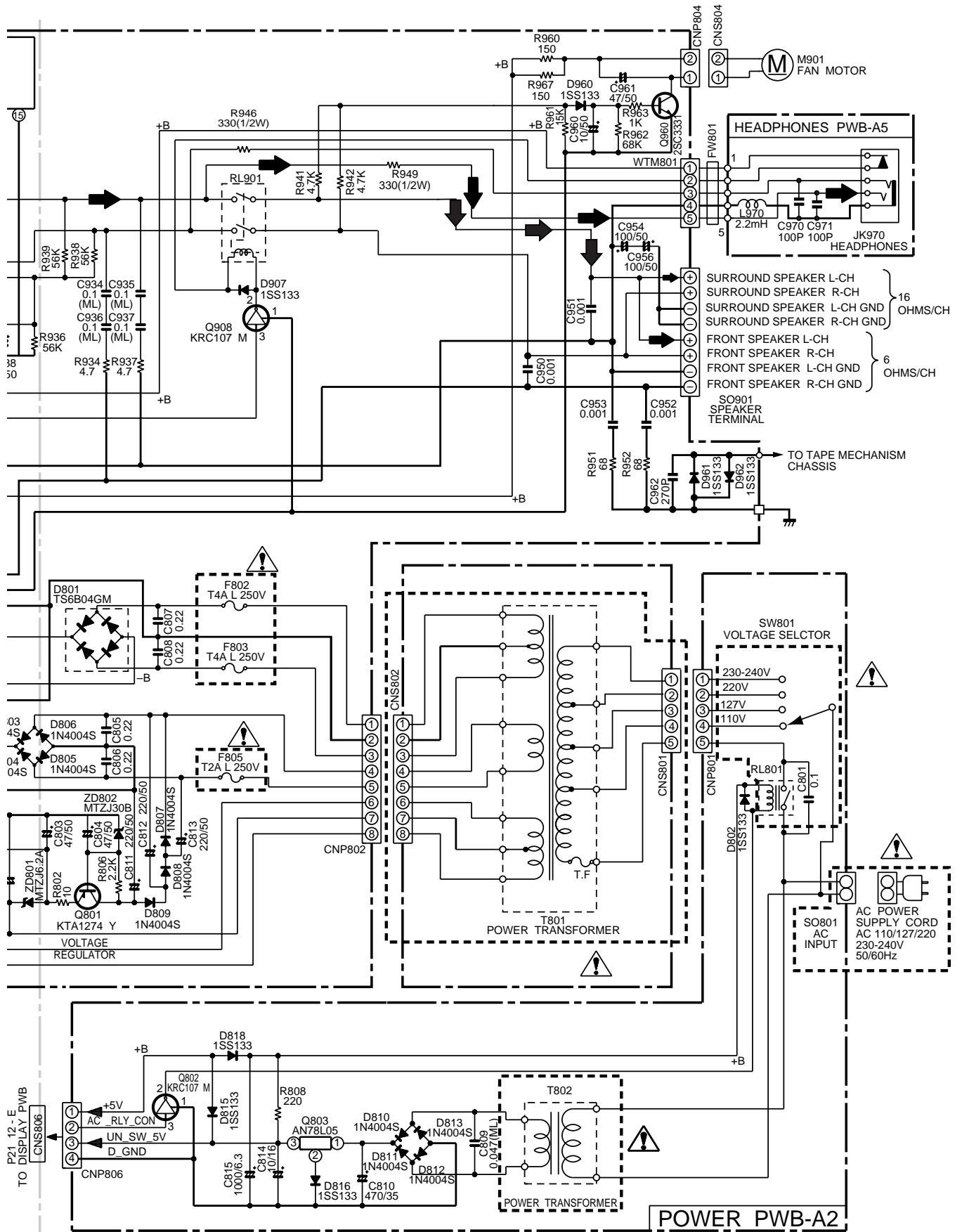


Figure 19 SCHEMATIC DIAGRAM (4/9)

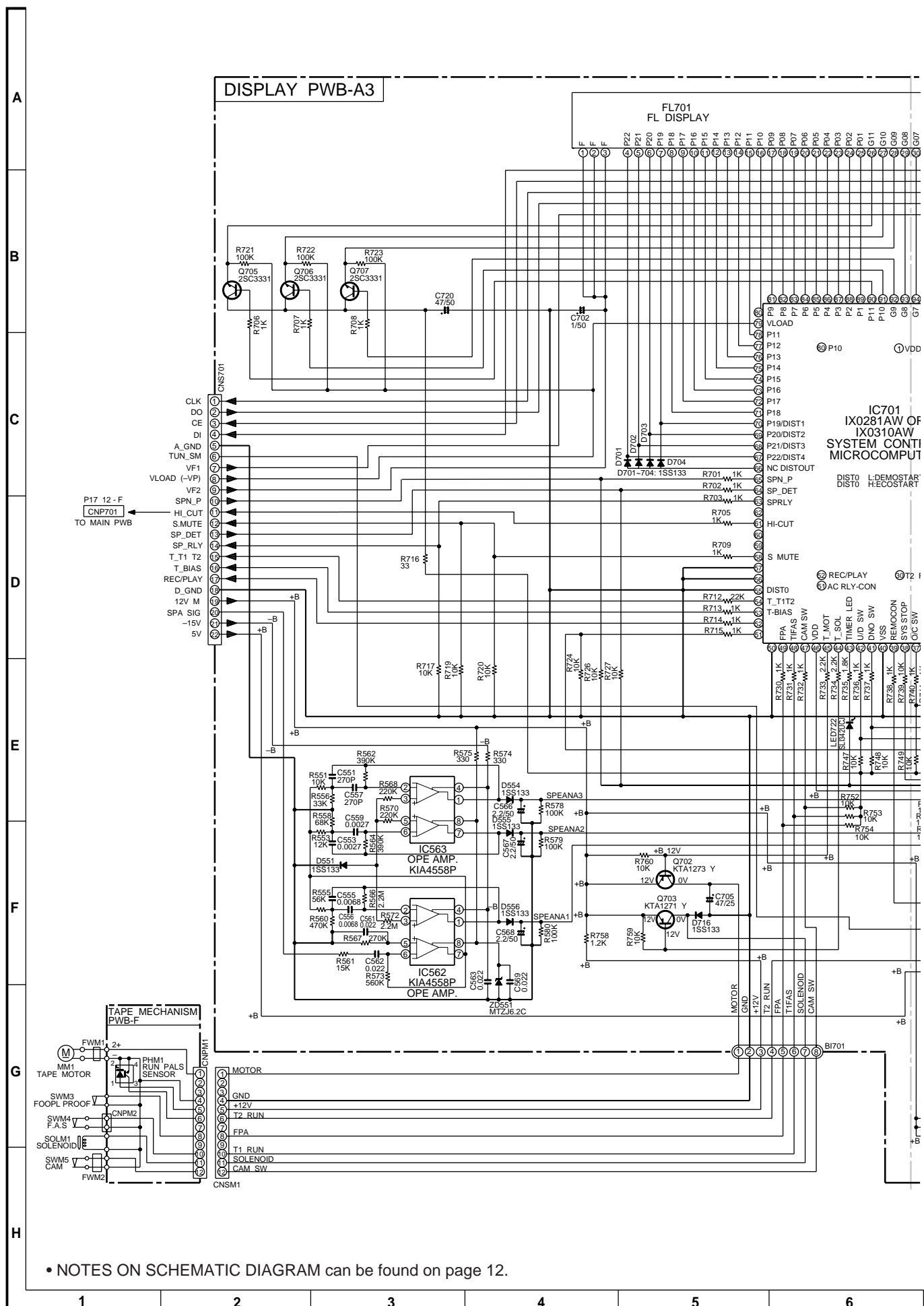


Figure 20 SCHEMATIC DIAGRAM (5/9)

- 21 -

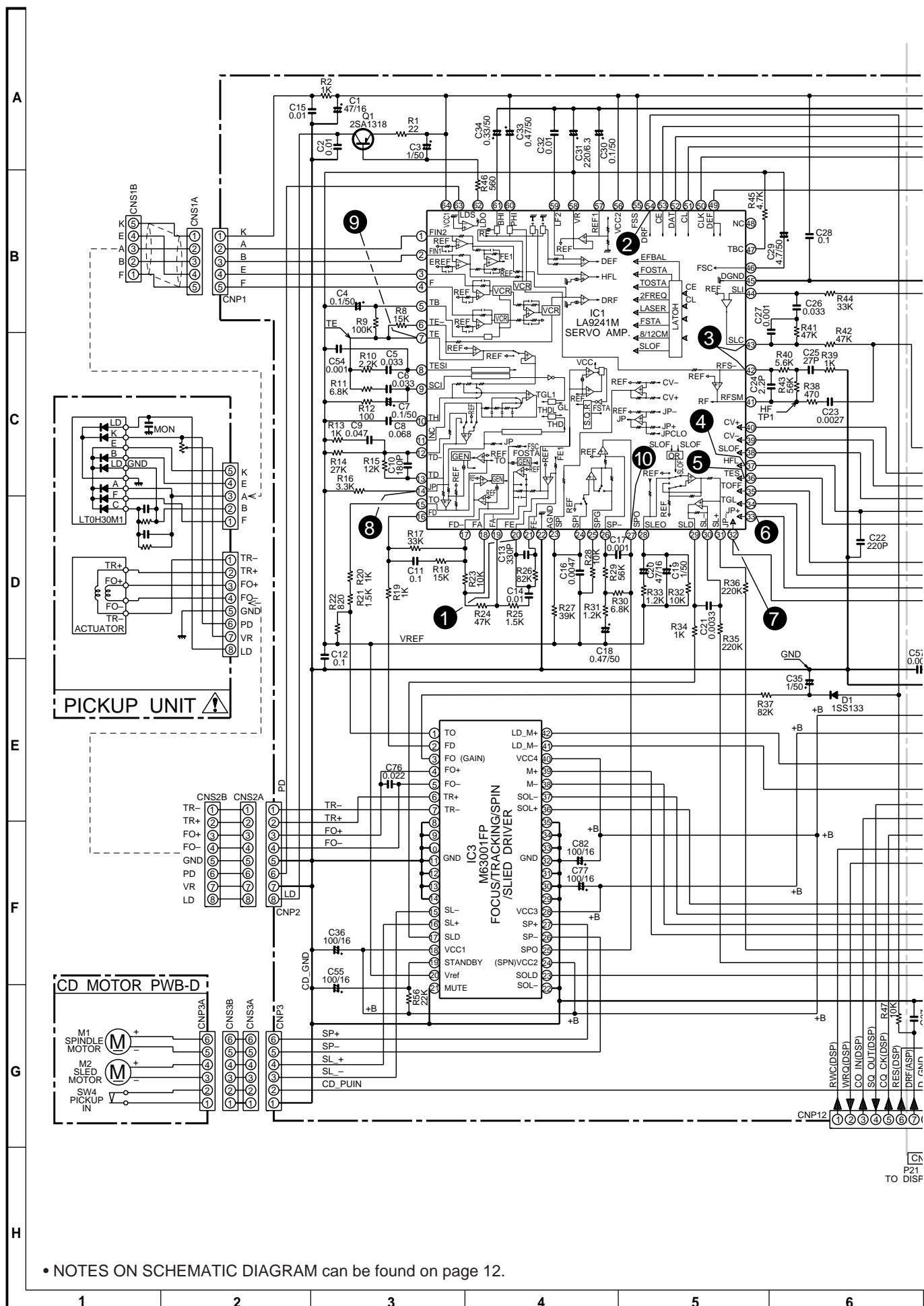
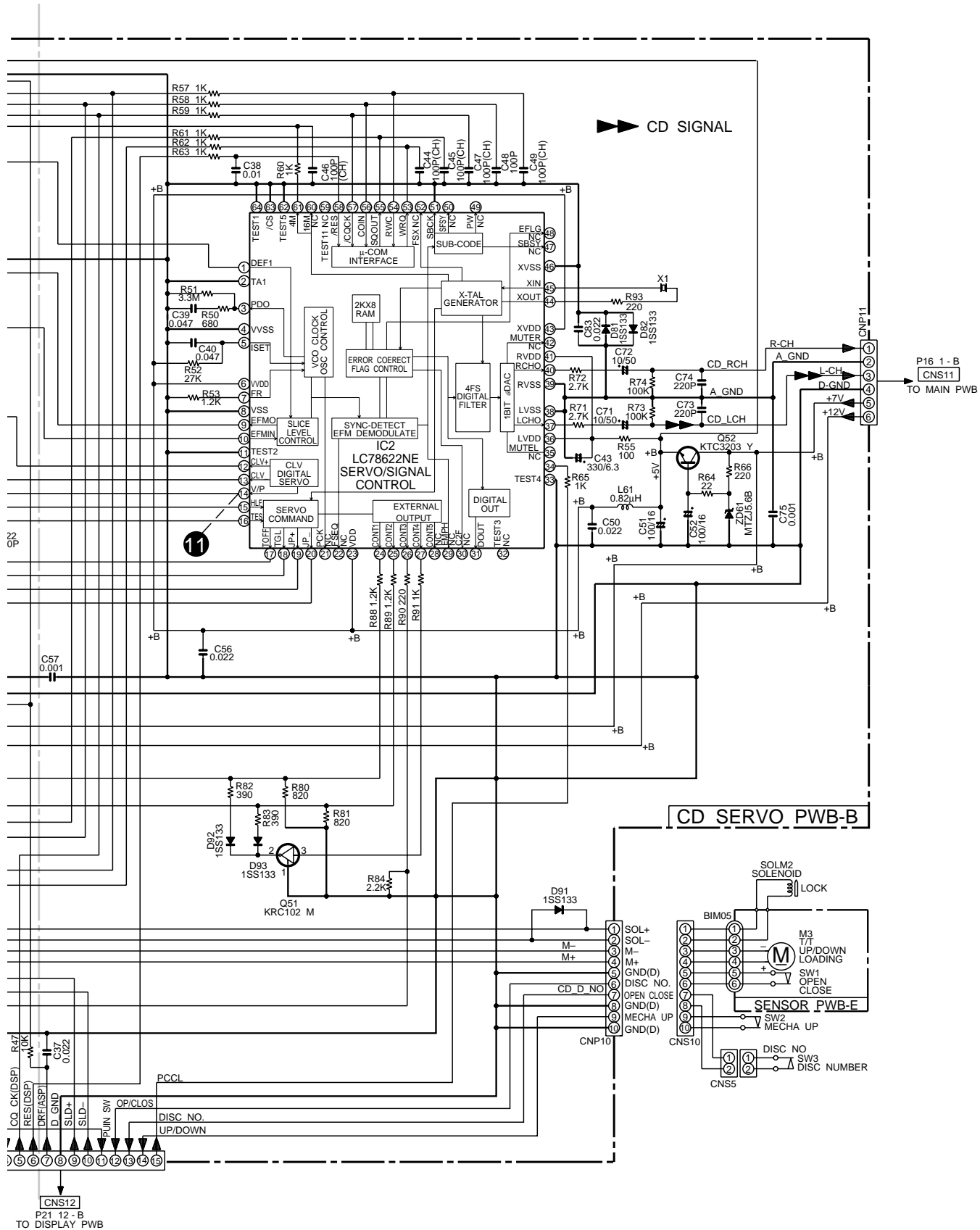


Figure 22 SCHEMATIC DIAGRAM (7/9)

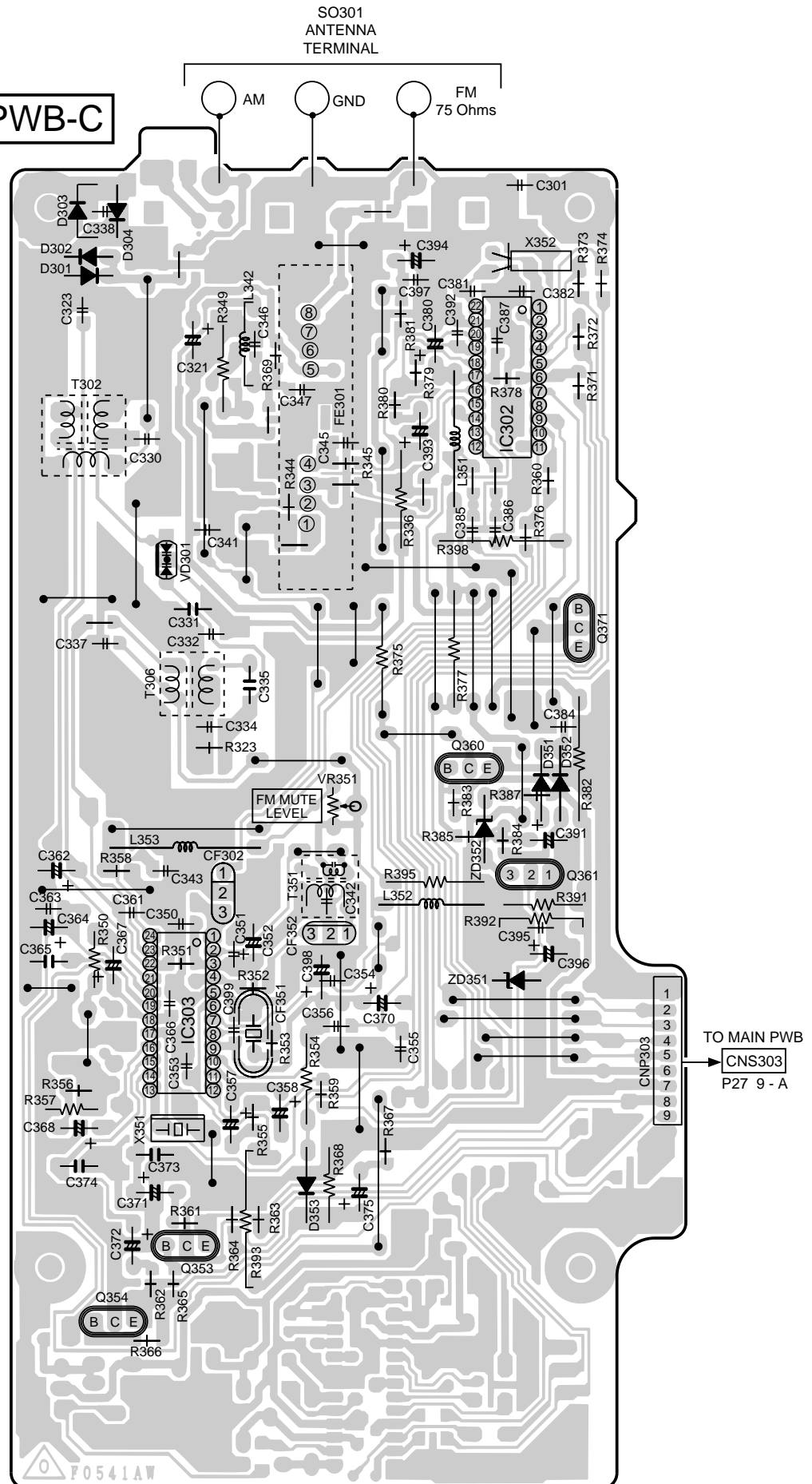


- The numbers ① to ⑫ are waveform numbers shown in page 33.

Figure 23 SCHEMATIC DIAGRAM (8/9)

- 24 -

TUNER PWB-C



7

8

9

10

11

12

Figure 25 WIRING SIDE OF P.W.BOARD (1/7)

- 26 -

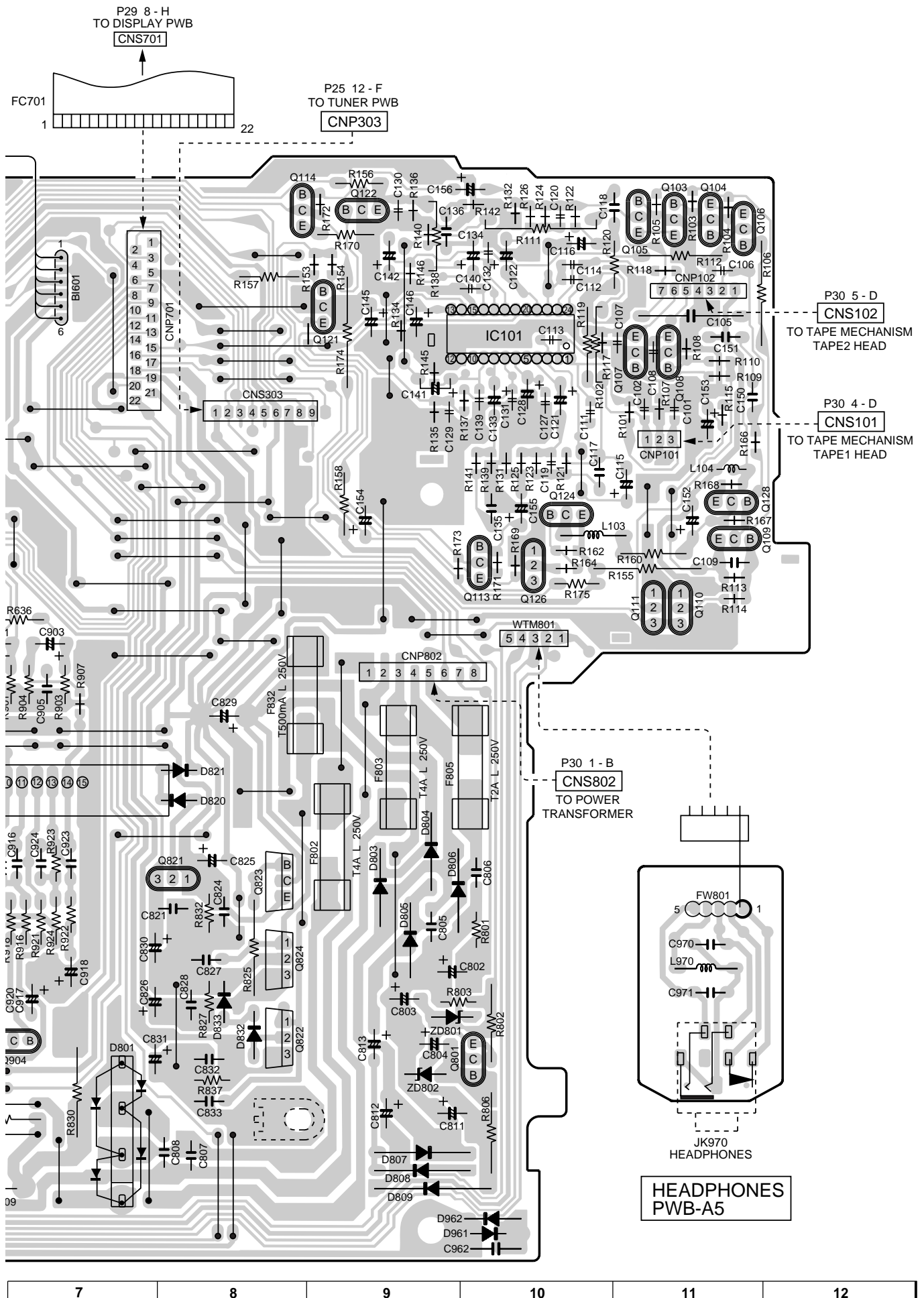


Figure 27 WIRING SIDE OF P.W.BOARD (3/7)

- 28 -

COLOR	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
TABLE	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK

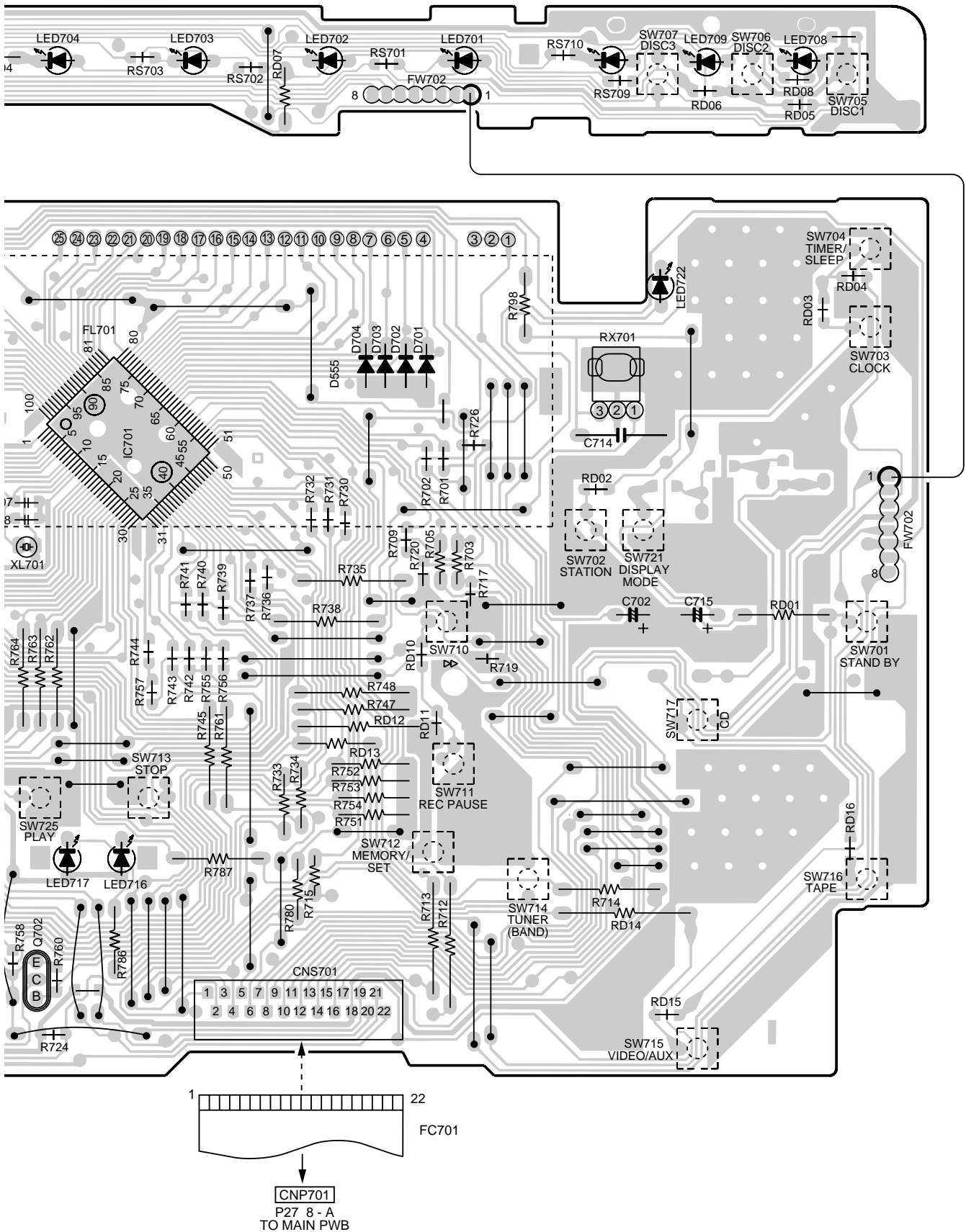


Figure 29 WIRING SIDE OF P.W.BOARD (5/7)

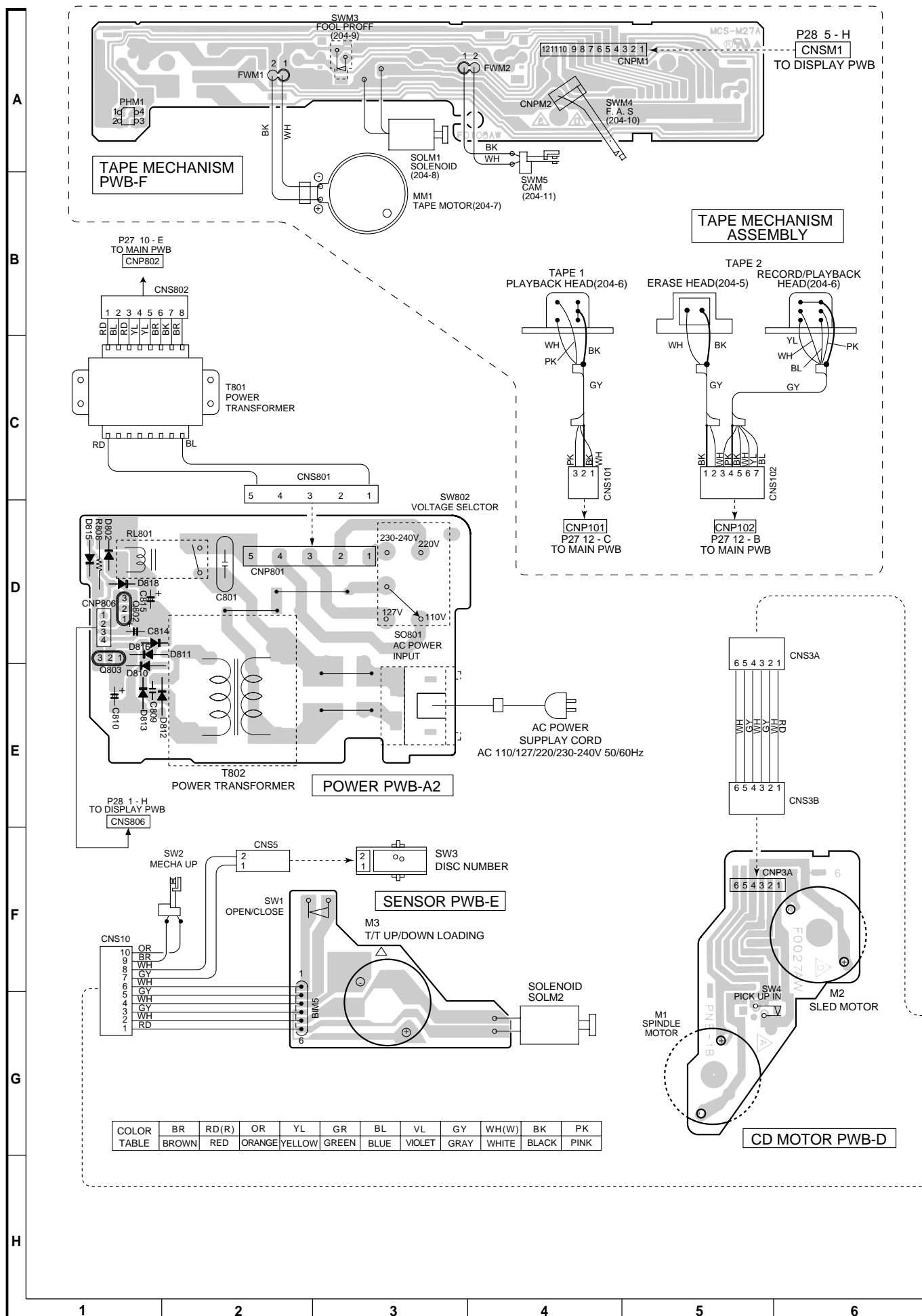
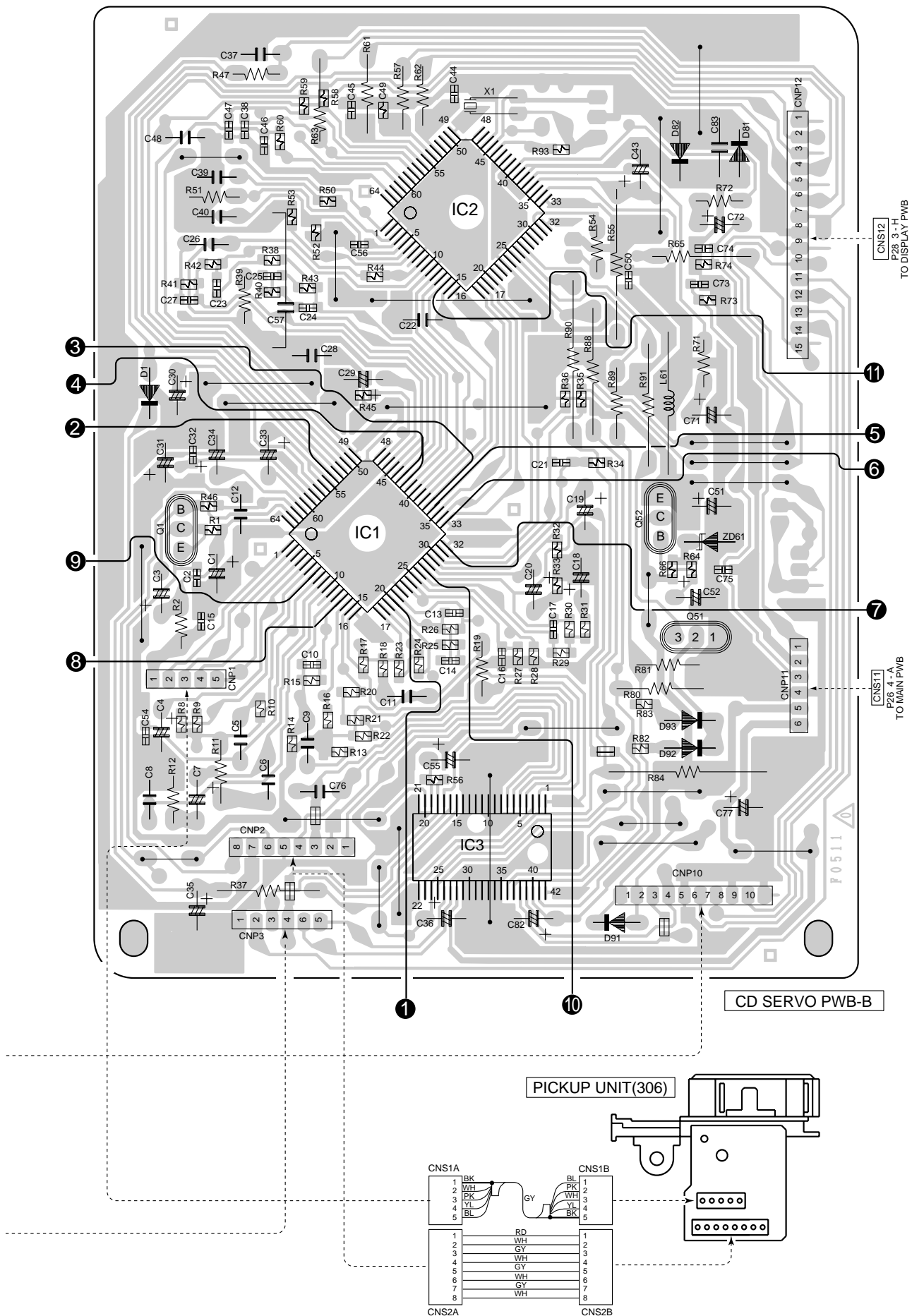


Figure 30 WIRING SIDE OF P.W.BOARD (6/7)



• The numbers ① to ⑫ are waveform numbers shown in page 33.

7	8	9	10	11	12
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Figure 31 WIRING SIDE OF P.W.BOARD (7/7)

VOLTAGE

PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	2.5V
4	2.5V
5	2.5V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.5V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.5V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.3V
31	2.3V
32	0V
33	0V
34	5.0V
35	5.0V
36	0V
37	0V
38	5.0V
39	0V
40	0V
41	1.6V
42	2.4V
43	2.4V
44	2.4V
45	0V
46	2.5V
47	2.5V
48	0V
49	0V
50	2.4V
51	4.6V
52	4.6V
53	0V
54	0V
55	5.0V
56	5.0V
57	2.5V
58	2.5V
59	1.0V
60	1.0V
61	2.2V
62	4.2V
63	0V
64	5.0V

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	1.9V
6	5.0V
7	0V
8	0V
9	2.5V
10	2.4V
11	0V
12	0V
13	0V
14	5.0V
15	0V
16	0V
17	5.0V
18	5.0V
19	0V
20	0V
21	2.5V
22	0V
23	5.0V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	5.0V
31	2.5V
32	0V
33	0V
34	0V
35	5.0V
36	4.6V
37	1.9V
38	0V
39	0V
40	1.9V
41	4.6V
42	5.0V
43	5.0V
44	2.1V
45	2.1V
46	0V
47	0.1V
48	2.3V
49	0V
50	2.5V
51	0V
52	2.5V
53	0V
54	0V
55	0V
56	4.6V
57	4.6V
58	4.7V
59	0V
60	2.3V
61	2.3V
62	0V
63	0V
64	0V

PIN NO.	VOLTAGE
1	2.5V
2	2.6V
3	2.9V
4	3.3V
5	3.3V
6	3.3V
7	3.3V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	3.3V
16	3.3V
17	3.0V
18	7.2V
19	5.0V
20	2.5V
21	0V
22	0V
23	0V
24	7.2V
25	2.5V
26	3.3V
27	3.3V
28	11.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	5.3V
37	5.3V
38	3.3V
39	3.3V
40	7.2V
41	0.1V
42	0.1V

PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	4.3V (4.3V)
5	0.2V (0.3V)
6	1.3V (1.3V)
7	0V (0V)
8	0.6V (0.6V)
9	4.1V (4.1V)
10	4.0V (4.0V)
11	0V (0V)
12	0V (0V)
13	8.1V (8.1V)
14	4.8V (4.8V)
15	0V (0V)
16	4.1V (4.1V)
17	0.6V (0.6V)
18	0V (0V)
19	2.5V (2.6V)
20	0.2V (0.3V)
21	4.3V (4.3V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	2.6V (0V)
4	2V (1.1V)
5	8.5V (0V)
6	0V (0V)
7	0V (0V)
8	0V (0V)

PIN NO.	VOLTAGE
1	0.12V
2	0.1V
3	0.13V
4	-11.2V
5	0.1V
6	0.1V
7	0.1V
8	6.2V

PIN NO.	VOLTAGE
1	0.2V
2	0.2V
3	0.2V
4	-9.8V
5	0.2V
6	0.2V
7	0.2V
8	6.2V

PIN NO.	VOLTAGE
1	2.6V (2.6V)
2	0V (0V)
3	0V (0.5V)
4	0V (0V)
5	4.1V (4.1V)
6	4.7V (4.7V)
7	0.2V (11.8V)
8	0.5V (0.1V)
9	0.2V (0.2V)
10	0V (0V)
11	5.1V (5.1V)
12	2.5V (2.5V)
13	5.1V (5.1V)
14	0V (0V)
15	0V (2.5V)
16	2.5V (0V)
17	5.1V (5.1V)
18	0.9V (0.9V)
19	0.9V (0.9V)
20	1.9V (1.1V)
21	0V (0V)
22	2.5V (2.5V)

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	2.7V
11	0.2V
12	-2.7V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V

PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

PIN NO.	VOLTAGE
1	2V (2V)
2	5V (5V)
3	2V (2V)
4	0V (0V)
5	5V (5V)
6	5V (5V)
7	5.1V (5.1V)
8	2.9V (3.5V)
9	5.1V (5.1V)
10	0.1V (0.1V)
11	3.9V (1.2V)
12	3.9V (1.2V)
13	2.2V (2.2V)
14	1.1V (1.1V)
15	1.1V (1.1V)
16	2V (2V)
17	0.2V (0.1V)
18	2.0V (0.8V)
19	0V (1.8V)
20	0.4V (0.8V)
21	2.6V (2V)
22	2.6V (2V)
23	5.1V (5.1V)
24	3.6V (3.6V)

PIN NO.	VOLTAGE
1	-30.4V
2	-30.4V
3	30.5V
4	0V
5	0V
6	0V
7	0V
8	-29.4V
9	29.4V
10	-0.1V
11	-0.1V
12	-28.0V
13	-0.1V
14	0.1V
15	0V

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0.8V
6	0.8V
7	0.9V
8	0.9V
9	0.8V
10	0.8V
11	0.7V
12	0V
13	0V
14	0V
15	9.8V
16	9.8V
17	0V
18	5.0V

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.8V	51	4.8V
2	4.8V	52	4.8V
3	4.8V	53	0V
4	0V	54	4.8V
5	0V	55	0V
6	0V	56	0V
7	0V	57	0V
8	0V	58	4.7V
9	0V	59	4.8V
10	4.0V	60	4.7V
11	2.3V	61	0V
12	2.3V	62	4.8V
13	0V	63	5.0V
14	4.9V	64	5.0V
15	0V	65	5.0V
16	4.9V	66	-28V
17	0V	67	-28V
18	4.8V	68	-28V
19	0V	69	-28V
20	4.8V	70	-28V
21	4.8V	71	-28V
22	0V	72	-28V
23	0V	73	-28V
24	0V	74	-20V
25	0V	75	-28V
26	0V	76	-22.6V
27	0V	77	-25.4V
28	0V	78	-22.6V
29	0V	79	-27.8V
30	0V	80	-25.4V
31	5.0V	81	-25.3V
32	5.0V	82	-25.3V
33	5.0V	83	-22.5V
34	4.8V	84	-25.3V
35	5.0V	85	-22.7V
36	4.7V	86	-27.3V
37	5.0V	87	-22.7V
38	4.8V	88	-17.4V
39	4.9V	89	-20V
40	0V	90	-25.4V
41	4.7V	91	-25.4V
42	0V	92	-25.4V
43	3.6V	93	-25.4V
44	11.3V	94	-25.4V
45	11.3V	95	-25.4V
46	4.8V	96	-25.4V
47	4.7V	97	-25.4V
48	4.7V	98	-25.4V
49	4.7V	99	-25.4V
50	0V	100	-25.4V

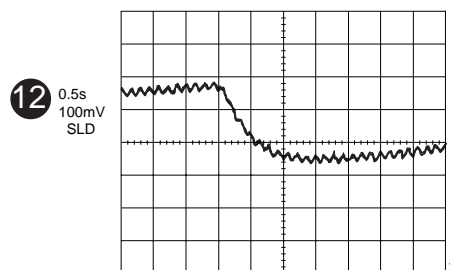
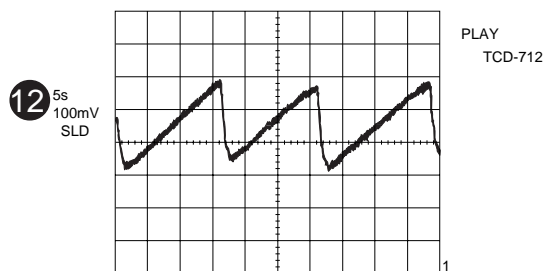
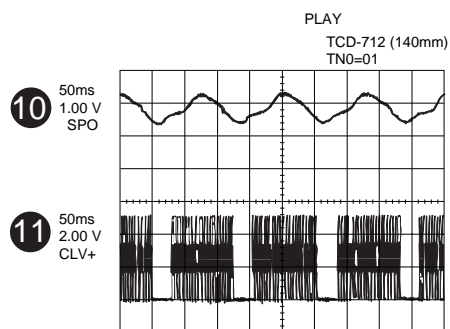
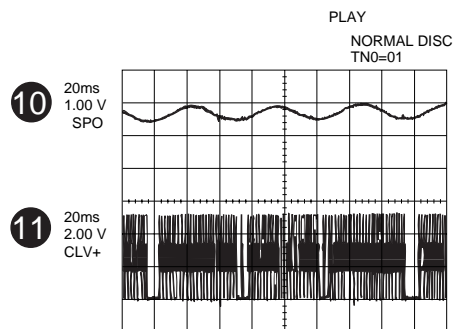
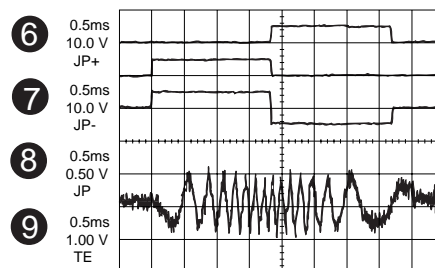
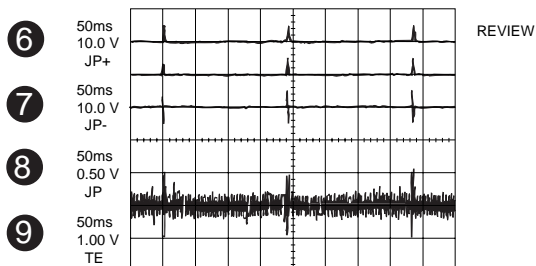
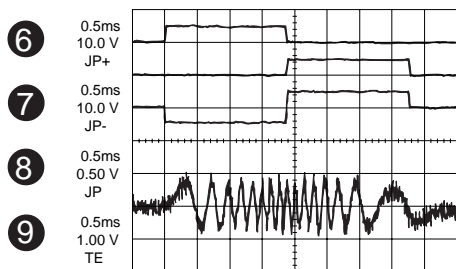
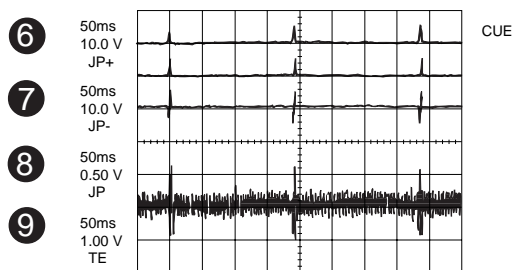
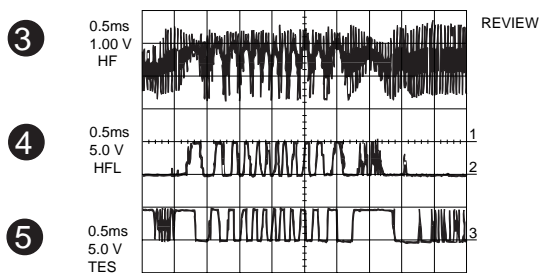
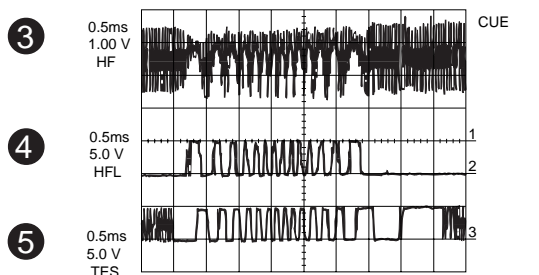
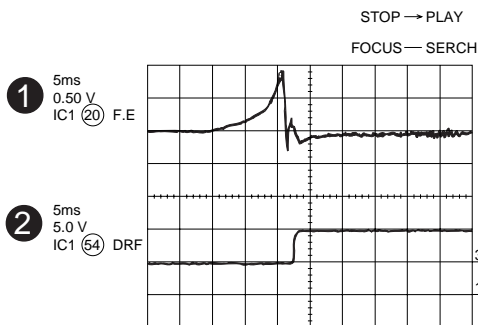
PIN NO.	VOLTAGE
1	11.3V
2	6.2V
3	1.2V

PIN NO.	VOLTAGE
1	19.6V
2	1.3V
3	7.3V

PIN NO.	VOLTAGE
1	12V
2	19.6V
3	11.3V

PIN NO.	VOLTAGE
1	19.6V
2	0V
3	12.0V

WAVEFORMS OF CD CIRCUIT



TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.

To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has ▲ the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continues to turn, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30 - 50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD player or on computer CD ROM drives.

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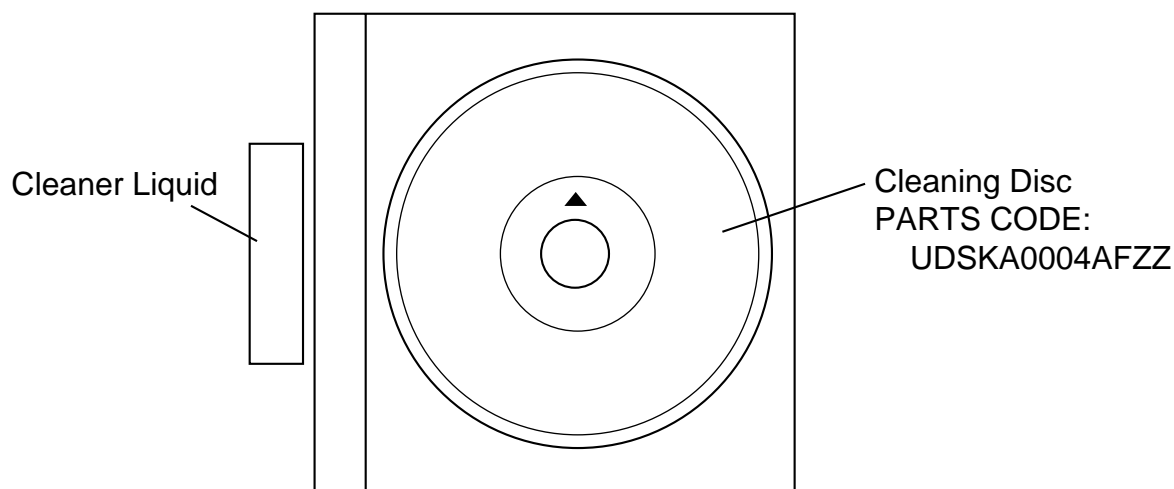
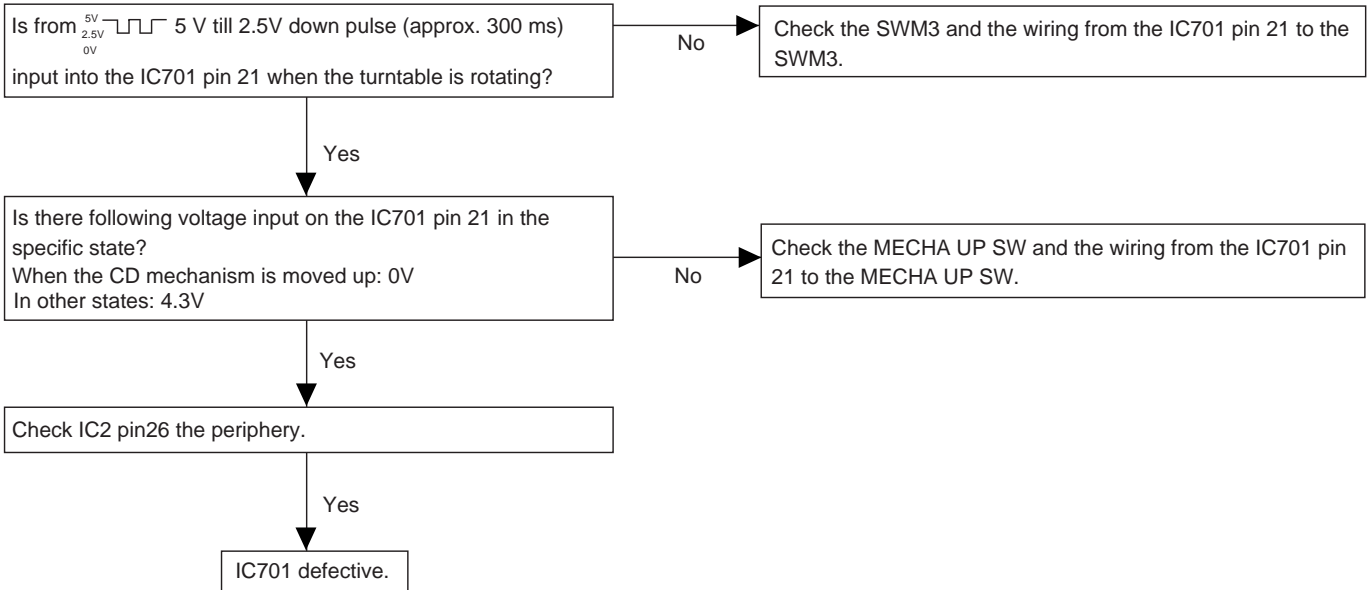
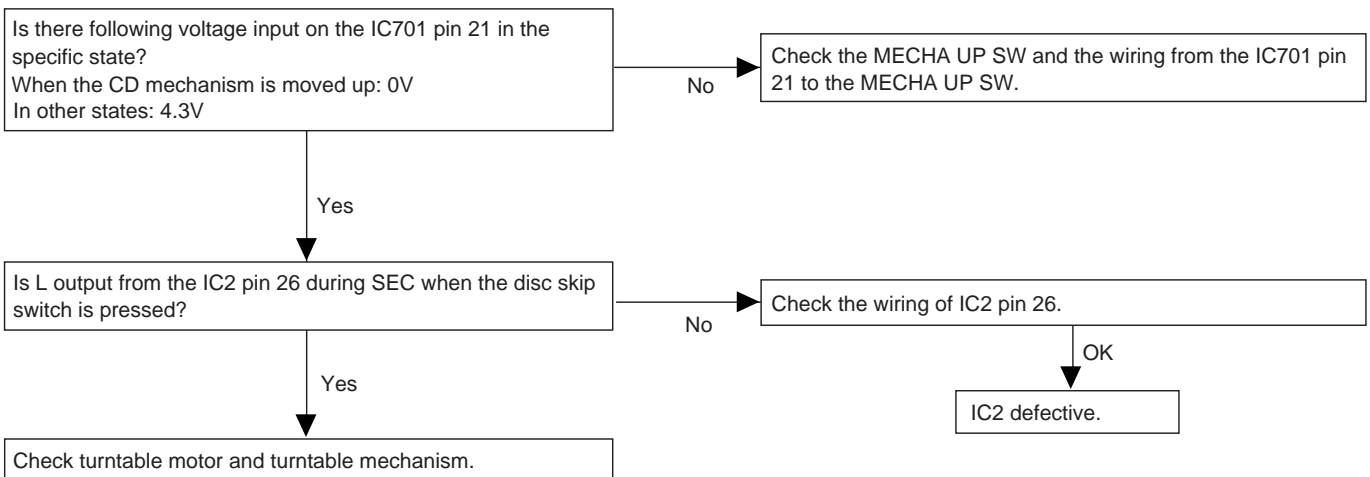


Figure 34

• When the turntable fails to stop.

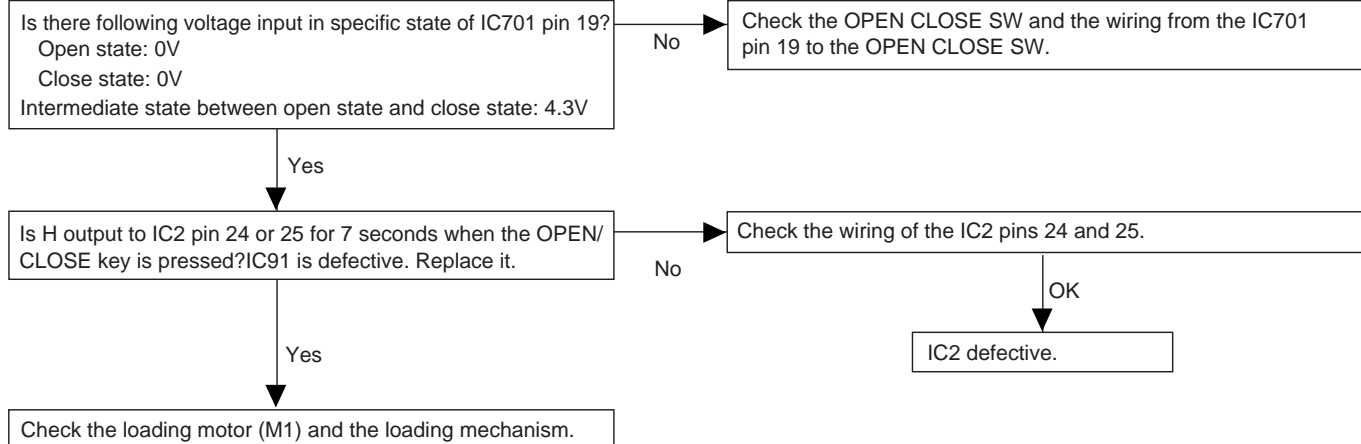


• When turntable fails to move.

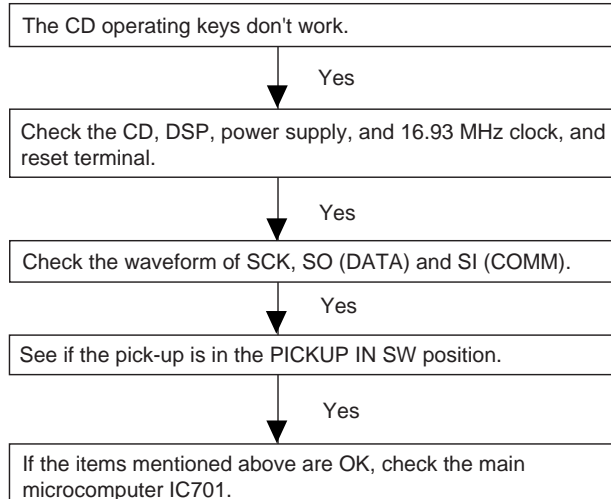


CD-C831W

• When the CD tray fails to open or close.



• The CD function will not work.



• The CD operating keys work.

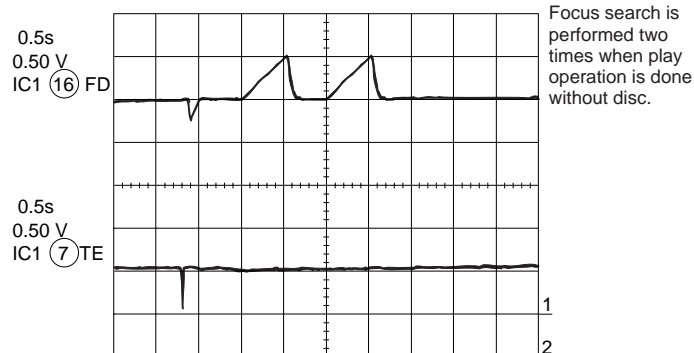
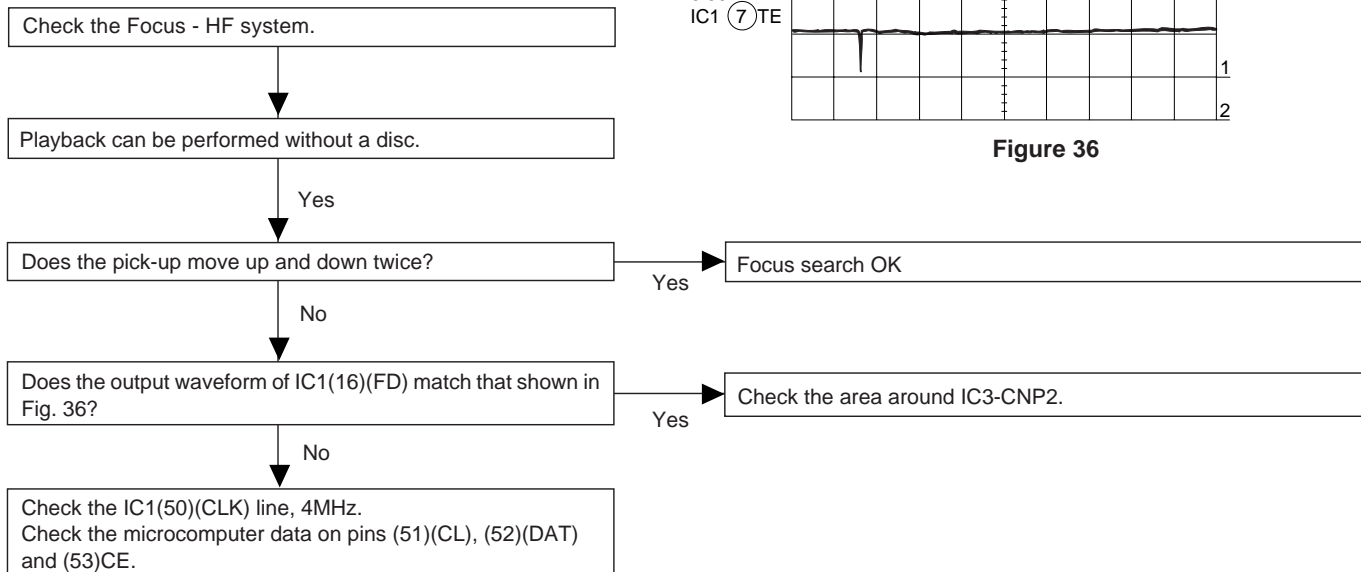
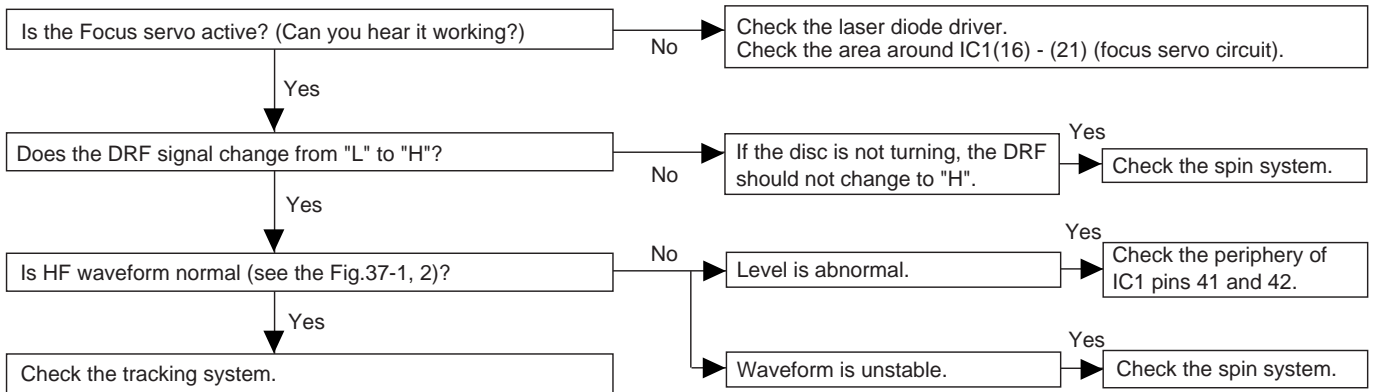


Figure 36

- Playback can only be performed when a disc is loaded.



HF
1.0V/DIV
0.5 μ sec/DIV(DC)
IC1 (41)
(When playing back the disc)

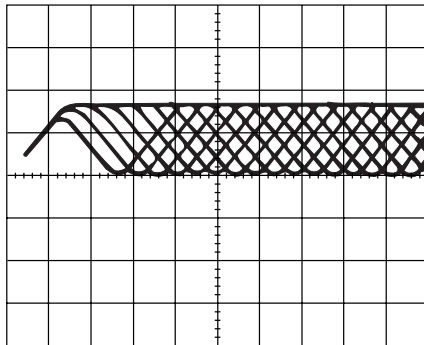
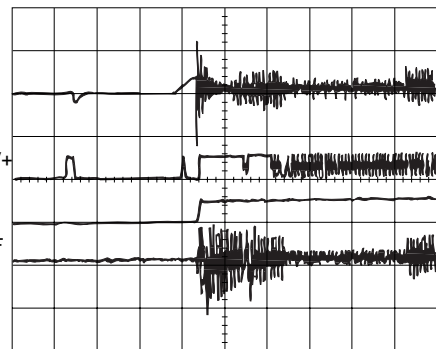


Figure 37-1

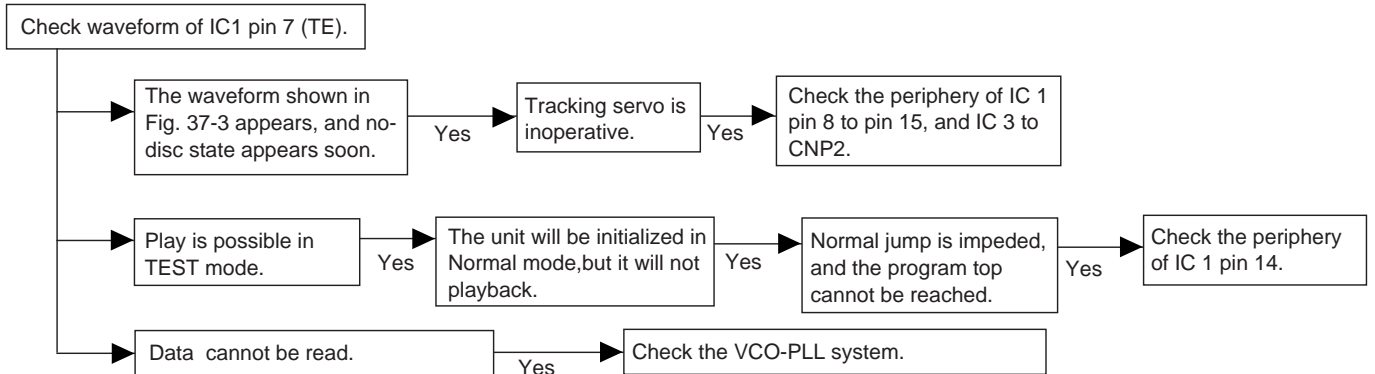
0.5s
1.00 V
IC1 (16) FD
0.5s
10.0 V
IC2 (13) CLV+
0.5s
10.0 V
IC1 (54) DRF
0.5s
2.00 V
IC1 (7) TE



Waveform in case of normal play-back

Figure 37-2

- Check the tracking system.



5ms
1.00 V
IC1 (7) TE

5 ms
5.0 V
IC1 (54) DRF

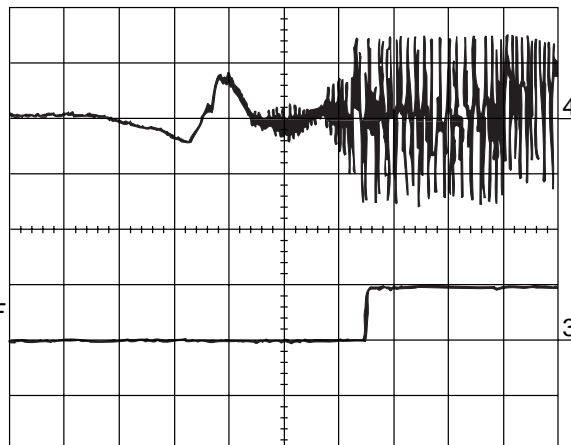


Figure 37-3

CD-C831W

• Checking the spin system.

Play operation is performed without disc.

Yes

The turntable rotates a little.

Yes

The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed.

Yes

Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC3 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read.

Yes

Check PDO waveform (Fig. 38).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.

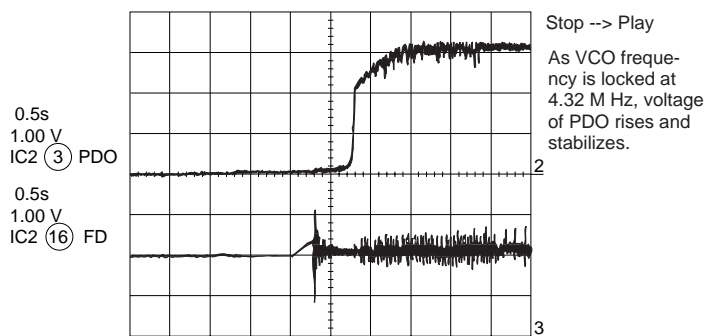


Figure 38

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG).

No

Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

FUNCTION TABLE OF IC

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	NC	No connect.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

CD-C831W

IC1 VHiLA9241M/-1: Servo Amp.(LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (\pm search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

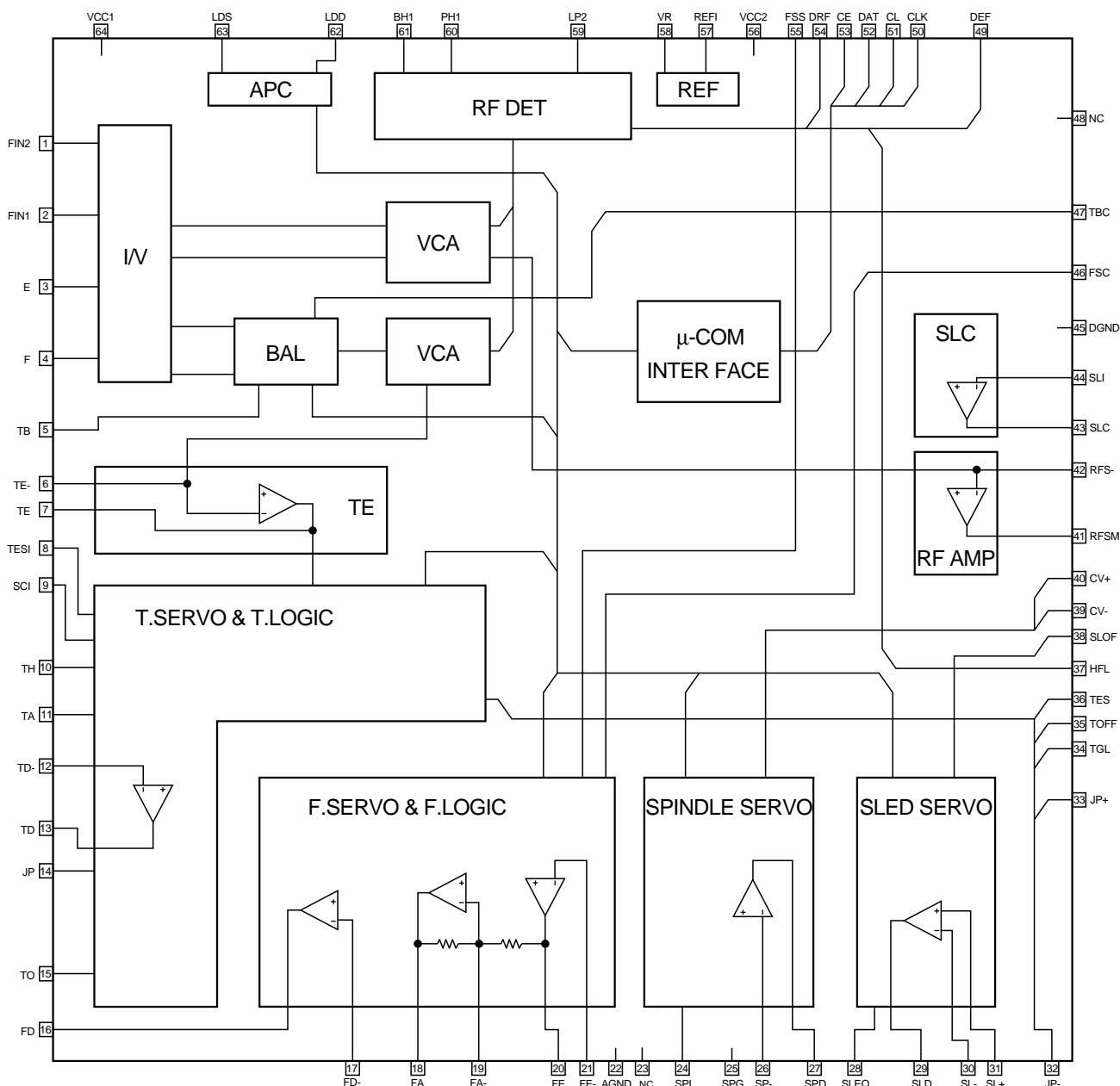


Figure 40 BLOCK DIAGRAM OF IC

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (1/2)

Pin No.	Terminal Name	Input/Output	Function	
1	DEFI	Input	Defect detection signal (DFF) input terminal. (When this terminal is not used, connect it to 0V.)	
2	TAI	Input	For PLL	Input terminal for test. Pull-down resistor built in. Be sure to connect this terminal to 0V.
3	PDO	Output		Phase comparison output terminal for external VCO control.
4	VVSS	—		Grounding terminal for built-in VCO. Be sure to connect this terminal to 0V.
5	ISSET	Input		Resistor connection terminal for adjustment of PDO output current.
6	VVDD	—		Power terminal for built-in VCO.
7	FR	Input		For VCO frequency range adjustment.
8	VSS	—	Digital system grounding terminal. Be sure to connect this terminal to 0V.	
9	EFMO	Output	For slice level control	EFM signal output terminal.
10	EFMIN	Input		EFM signal input terminal.
11	TEST2	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.	
12	CLV+	Outout	Output for disc motor control. 3-value output is enabled according to command.	
13	CLV-	Output	Output for disc motor control. 3-value output is enabled according to command.	
14	V/P	Output	Rough servo/phase control automatic selection monitor output terminal. "H": Rough servo, "L": Phase servo	
15	HLF	Intput	Track detection signal input terminal. Schmidt input.	
16	TES	Input	Tracking error signal input terminal. Schmidt input.	
17	TOFF	Output	Tracking OFF output terminal.	
18	TGL	Output	Output terminal for tracking gain selection. "L": Gain raising.	
19	JP+	Output	Output for track jump control. 3-value output is enabled according to command.	
20	JP-	Output	Output for track jump control. 3-value output is enabled according to command.	
21*	PCK	Output	Clock monitor terminal for EFM data play-back. Phase lock: 4.3218 MHz.	
22*	FSEQ	Output	Sync signal detection output terminal. When the sync signal detected from the EFM signal coincides with the internally generated sync signal: "H"	
23	VDD	—	Digital system power terminal.	
24	CONT1	Input/Output	General-use input/output terminal 1.	Control with serial data command from microcomputer. When this terminal is not used, set it as an input terminal and connect to 0V or set it as an output terminal and open.
25	CONT2	Input/Output	General-use input/output terminal 2.	
26	CONT3	Input/Output	General-use input/output terminal 3.	
27	CONT4	Input/Output	General-use input/output terminal 4.	
28*	CONT5	Input/Output	General-use input/output terminal 5.	
29*	EMPH/CONT6	Output	Deemphasis monitor terminal. "H": Deemphasis disc play-back. General-use output terminal 6.	
30*	C2F	Output	C2 flag output terminal.	
31*	DOUT	Output	Digital OUT output terminal. (EIAJ format)	
32*	TEST3	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.	
33	TEST4	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.	
34	PCCL	Input	General-use input/output command recognition terminal. Pull-down resistor built in. When this terminal is used for the same function as that of LC78622E, open or connect this terminal to 0V. H: Only the general-use input/output port command is controllable. L: All command controls are enabled.	
35*	MUTEL/CONT7	Output	L channel 1-bit DAC	Mute output terminal for L channel. General-use output terminal 7.
36	LVDD	—		Power terminal for L channel.
37	LCHO	Output		L channel output terminal.
38	LVSS	—		Grounding terminal for L channel. Be sure to connect this terminal to 0V.
39	RVSS	—	R channel 1-bit DAC	Grounding terminal for R channel. Be sure to connect this terminal to 0V.
40	RCHO	Output		R channel output terminal.
41	RVDD	—		Power terminal for R channel.
42*	MUTER/CONT8	Output		Mute output terminal for R channel. General-use output terminal 8.
43	XVDD	—	Power terminal for crystal oscillation.	
44	XOUT	Output	16.9344 MHz crystal oscillator connection terminal.	
45	XIN	Input	16.9344 MHz crystal oscillator connection terminal.	
46	XVSS	—	Grounding terminal for crystal oscillation. Be sure to connect this terminal to 0V.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (2/2)

Pin No.	Terminal Name	Input/Output	Function
47*	SBSY	Output	Sub-code clock sync signal output terminal.
48*	EFLG	Output	C1, C2, single, double correction monitor terminal.
49*	PW	Output	Sub-code P, Q, R, S, T, U, and W output terminal.
50*	SFSY	Output	Sub-code frame sync signal output terminal. Falling occurs when the sub-code is in standby state.
51	SBCK	Input	Sub-code read clock input terminal. Schmidt input (When this terminal is not used, connect it to 0V.)
52*	FSX	Output	7.35 kHz sync signal (frequency-divided from crystal oscillation) output terminal.
53	WRQ	Output	Sub-code Q output standby output terminal.
54	RWC	Input	Read/Write control input terminal. Schmidt input.
55	SQOUT	Output	Sub-code Q output terminal.
56	COIN	Input	Command input terminal from microcomputer.
57	CQCK	Input	Command input taking-in clock or sub-code taking-out (from SQOUT) clock input terminal. Schmidt input
58	RES	Input	LSI resetting input terminal. When power is turned on, once "L" is set.
59*	TEST11	Output	Output terminal for test. Use this terminal in open state (usually "L" output).
60*	16M	Output	16.9344 MHz output terminal.
61	4.2M	Output	4.2336 MHz output terminal.
62	TEST5	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.
63	CS	Input	Chip selection input terminal. Pull-down resistor built-in. In noncontrol state connect this terminal to 0V.
64	TEST1	Input	Input terminal for test. Pull-down resistor is not provided. Be sure to connect this terminal to 0V.

Note: The same potential must be supplied to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

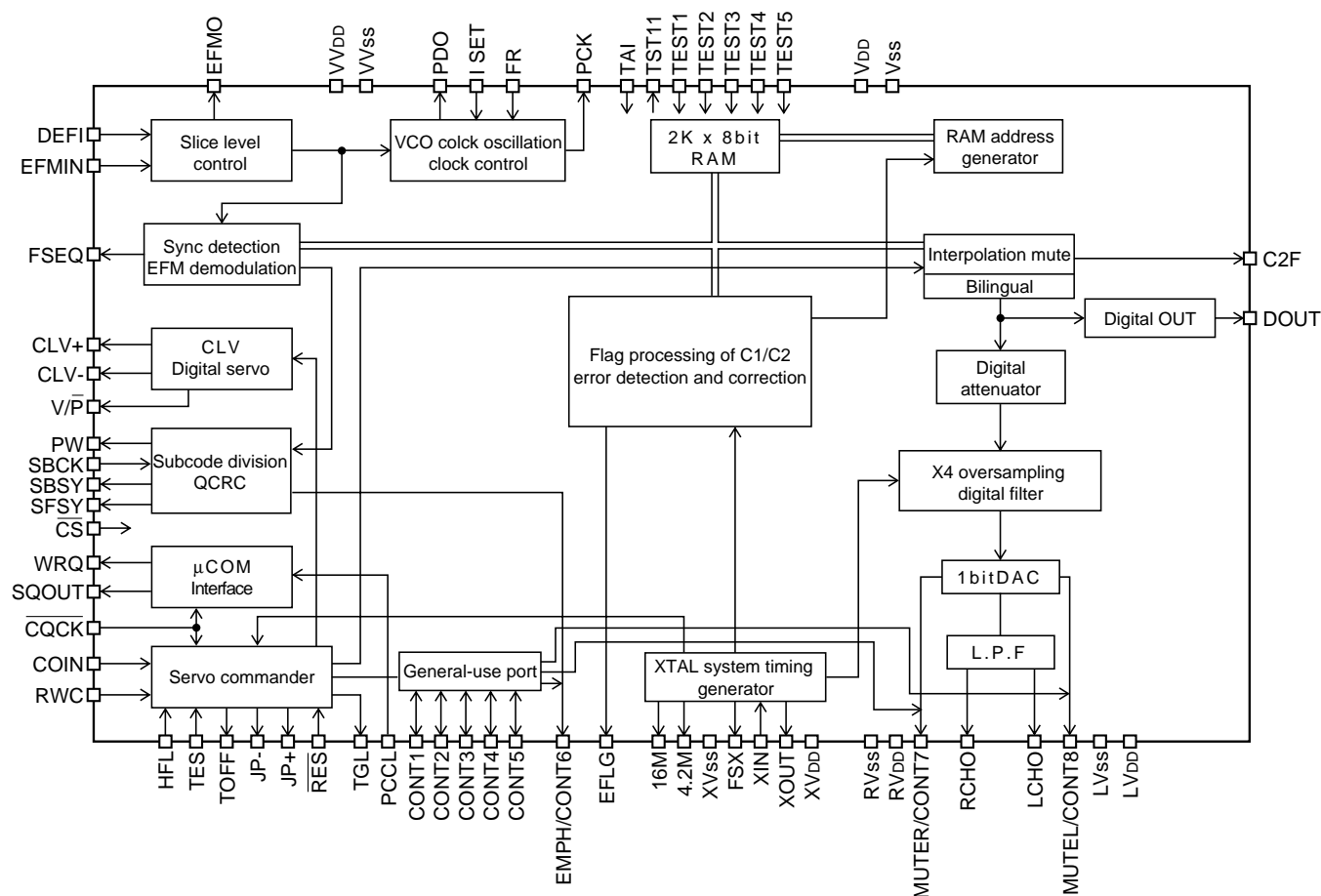


Figure 42 BLOCK DIAGRAM OF IC

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Slide Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36	OUT5+	CH5 non-inverted output.
37	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.

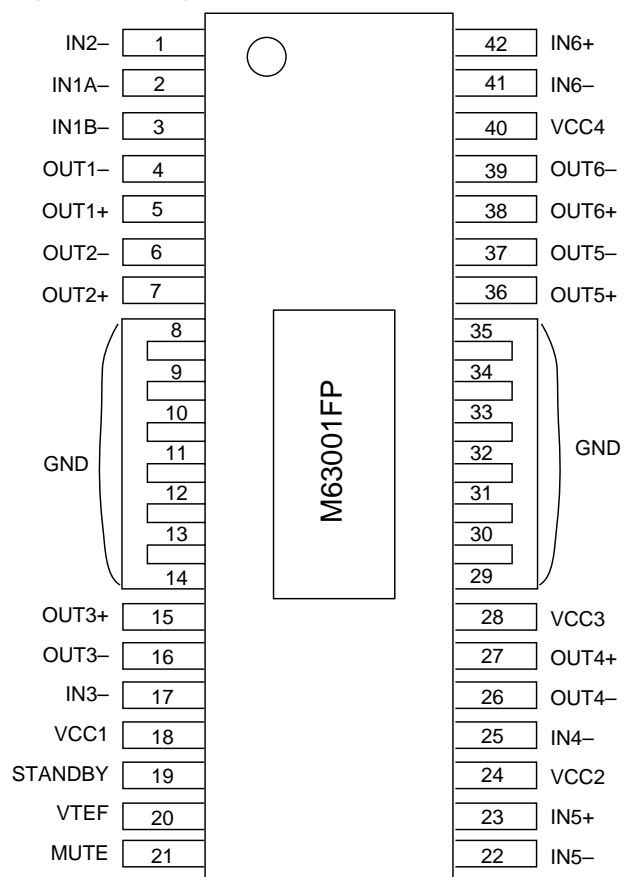
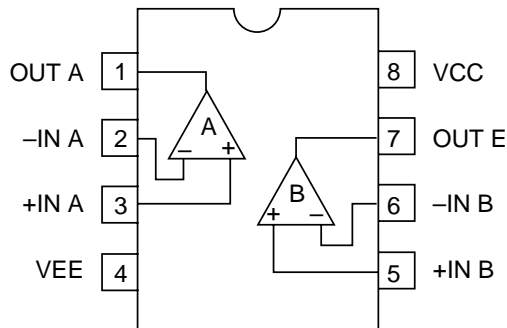
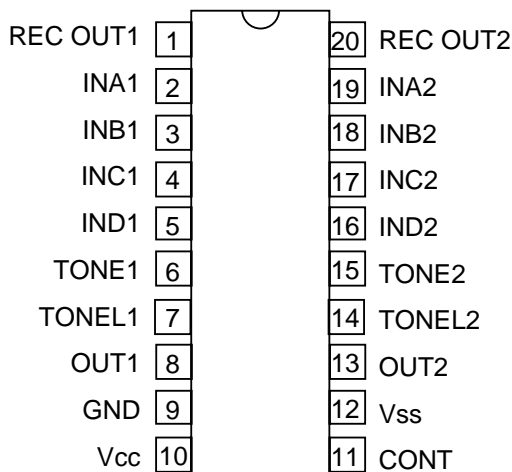
**IC562,563 VHiKiA4558P-1: Ope Amp. (KIA4558P)****IC601 VHiM62439SP-1: Audio Processor (M62439SP)**

Figure 43 BLOCK DIAGRAM OF IC

CD-C831W

IC701 RH-iX0281AWZZ: System Microcomputer (IX0281AW) (1/2) or IC701 RH-iX0310AWZZ: System Microcomputer (IX0310AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2*	P37	ENA	Output	DOLBY PROLOGIC ENABLE TERMINAL
3	P36	DO	Input	DATA INPUT
4	P35	DI	Output	DATA OUTPUT
5	P34	CE	Output	CE OUTPUT
6	P33	CLK	Output	CLOCK OUTPUT
7,8*	P32, P31	LCK1, LCK2	Output	
9	P30	RWC	Output	CD DSP READ WRITE CONTROL
10	RESET	RESET	Input	RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	Vpp	VPP	—	POWER SUPPLY TERMINAL
14*	XT2	XT2	—	OPEN
15	P04	WRQ	Input	CD DSP WRITE REQUEST
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	PCCL	Output	CD DSP PCCL
18	P26	COIN	Output	CD DSP COMAND
19	P25	SQOUT	Input	CD DSP CODE Q OUT
20	P24	CQCK	Output	CD DSP CLOCK
21	P23	DSP RES	Output	CD DSP RESET
22	P22	FRF (DRF)	Input	CD RF LEVEL DETECTION
23	P21	SLD+	Output	CD SLIDE MOTOR +
24	P20	SLD-	Output	CD SLIDE MOTOR -
25	AVss	AVSS	—	ANALOG GROUND
26	ANI7	SPEANA3	Input	SPEANA DATA INPUT 16 KHz
27	ANI6	SPEANA2	Input	SPEANA DATA INPUT 1 KHz
28	ANI5	SPEANA1	Input	SPEANA DATA INPUT 63 Hz
29	ANI4	TUN SM	Input	TUNER SIGNAL METER INPUT
30	ANI3	T2 RUN	Input	TAPE2 RUN PULSE INPUT
31-33	ANI2-ANI0	KEYIN3-KEYIN1	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	P03	PUIN SW	Input	CD PUIN SWITCH
37	P02	O/C SW	Input	CD OPEN/CLOSE SWITCH
38	INTP1	SYS STOP	Input	SYSTEM STOP INPUT
39	INTP0	REMOCON	Input	REMOCON INPUT
40	Vss	VSS	—	GROUND VOLTAGE
41	P74	DNO SW	Input	CD DISC NO. SWITCH
42	P73	U/D SW	Input	CD UP/DOWN SWITCH
43	P72	TIMER LED	Output	TIMER LED CONTROL
44	P71	T_SOL	Output	TAPE SOLENOID CONTROL
45	P70	T_MOT	Output	TAPE MOTOR CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	CAM SW	Input	TAPE CAM SWITCH
48	P126	TIFAS	Input	TAPE1 FULL AUTOSTOP PULSE INPUT
49	P125	FPA	Input	TAPE2 A-SIDE FULL PROOF
50	P124	H/P	Input	HEADPHONE INPUT
51	P123	AC RLY_CONT	Output	AC RELAY CONTROL
52	P122	REC/PLAY	Output	TAPE REC/PLAY CHANGE
53	P121	T_BIAS	Output	TAPE Record bias control
54	P120	T_T1T2	Output	TAPE T1/T2 CHANGE

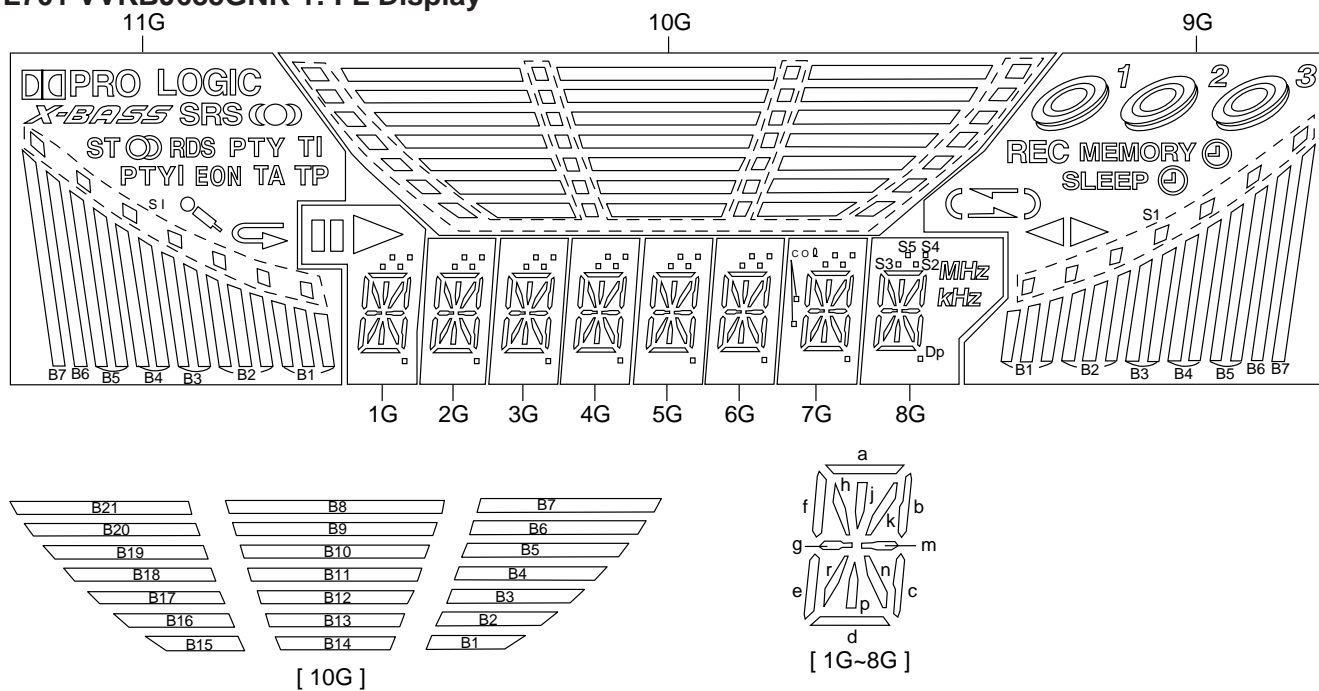
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

**IC701 RH-IX0281AWZZ: System Microcomputer (IX0281AW) (1/2) or
IC701 RH-IX0310AWZZ: System Microcomputer (IX0310AW) (1/2)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
55	P117	DISTO	Input	DISTINATION INPUT]
56	P116	KEY JOG A	Input	KEY JOG INPUT A
57	P115	KEY JOG B	Input	KEY JOG INPUT B
58	P114	S MUTE	Output	SYSTEM MUTE
59*	P113	C MUTE	Output	CENTER MUTE
60*	P112	SR MUTE	Output	SURROUND MUTE
61	P111	HI-CUT	Output	HI-CUT OUTPUT
62*	P110	POWER	Output	POWER OUTPUT
63	P107	SPRLY	Output	SPEAKER OUTPUT RELAY CONTROL
64	P106	SP_DET	Input	SPEAKER OUTPUT DETECTION
65	P105	SPN_P	Input	TUNER SPAN CHANGE
66*	P104	DISTOUT	Output	DISTINATION OUTPUT
67	P103/FIP32	DIAS4/P22	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
68	P102/FIP31	DIAS3/P21	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
69	P101/FIP30	DIAS2/P20/P15	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
70	P100/FIP29	DIAS1/P19/P16	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
71-78	FIP28-FIP21	P18/P13-P11/P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (–) POWER SUPP, –30V
80-100	FIP20-FIP0	P10/P6-G1/9G	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

FL701 VVKBJ685GNK-1: FL Display



ANODE CONNECTION

	1G	2G~6G	7G	8G	9G	10G	11G
P1	Dp	Dp	Dp	Dp	S1	S1	S1
P2	d	d	d	d	B1	B1	B1
P3	c	c	c	c	B2	B2	B2
P4	n	n	n	n	B3	B3	B3
P5	p	p	p	p	B4	B4	B4
P6	r	r	r	r	B5	B5	B5
P7	e	e	e	e	B6	B6	B6
P8	m	m	m	m	B7	B7	B7
P9	g	g	g	g		B8	DIPRO LOGIC
P10	-	-	col	-		B9	X-BASS
P11	b	b	b	b		B10	SRS
P12	k	k	k	k	REC	B11	ST
P13	j	j	j	j	MEMORY	B12	
P14	h	h	h	h		B13	RDS
P15	f	f	f	f		B14	PTYI
P16	a	a	a	a	SLEEP	B15	TI
P17	S2	S2	S2	S2		B16	TP
P18	S3	S3	S3	S3		B17	TA
P19	S4	S4	S4	S4		B18	PTYI
P20	S5	S5	S5	S5		B19	EON
P21		-	-	MHz		B20	
P22		-	-	kHz	-	B21	

Figure 46 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-C831W

CD-C831W mini component system consisting of CD-C831W (Main unit), CP-C831 (Front speaker) and GBOXS0025AWM1 (Surround speaker).

“HOW TO ORDER REPLACEMENT PARTS”

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC Ceramic type
VCK Ceramic type
VCT Semiconductor type
VC •• MF Cylindrical type (without lead wire)
VC •• MN Cylindrical type (without lead wire)
VC •• TV Square type (without lead wire)
VC •• TQ Square type (without lead wire)
VC •• CY Square type (without lead wire)
VC •• CZ Square type (without lead wire)
VC J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD Carbon-film type
VRS Carbon-film type
VRN Metal-film type
VR •• MF Cylindrical type (without lead wire)
VR •• MN Cylindrical type (without lead wire)
VR •• TV Square type (without lead wire)
VR •• TQ Square type (without lead wire)
VR •• CY Square type (without lead wire)
VR •• CZ Square type (without lead wire)
VR J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:

Parts marked with “⚠” are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-C831W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CD-C831W				
INTEGRATED CIRCUITS				
IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78622N/-1	J	AY	Servo/Signal Control,LC78622NE
IC3	VHIM63001FP/-1	J	AX	Focus/Tracking/Spin/Slide Driver,M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832/-1	J	AR	FM IF Det./FM Mpx./AM IF, LA1832
IC562,563	VHIKIA4558P/-1	J	AC	Ope Amp.,KIA4558P
IC601	VHIM62439SP/-1	J	AG	Audio Processor,M62439SP
IC701	RH-IX0281AWZZ	J	AZ	System Control Microcomputer, IX0281AW
or	RH-IX0310AWZZ	J		System Control Microcomputer, IX0310AW
IC703	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC901	VHISTK4074B/-1	J	AP	Power Amp.,STK407-040B

TRANSISTORS

Q1	VS2SA1318/-1	J	AC	Silicon,PNP,2SA1318
Q51	VSKRC102M/-1	J	AC	Digital,NPN,KRC102 M
Q52	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q103~106	VS2SC2389SE/-1	J	AD	Silicon,NPN,2SC2389 SE
Q107,108	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q109	VS2SA1318/-1	J	AC	Silicon,PNP,2SA1318
Q110,111	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q113,114	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q121,122	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q124	VS2SA1015GR/-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q353,354	VSKTC3199GR/-1	J	AB	Silicon,NPN,KTC3199 GR
Q360	VSKTA1266GR/-1	J	AB	Silicon,PNP,KTA1266 GR
Q361	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q371	VSKTA1266GR/-1	J	AB	Silicon,PNP,KTA1266 GR
Q601~604	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q650,651	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q702	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q703	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q704	VSKRC102M/-1	J	AC	Digital,NPN,KRC102 M
Q705~707	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q802	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q803	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
Q821	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
Q822	VHIKIA7806P/-1	J	AG	Voltage Regulator,KIA7806P
Q823	VSKTD2058Y/-1	J	AF	Silicon,NPN,KTD2058 Y
Q824	VHIKIA7812P/-1	J	AE	Voltage Regulator,KIA7812P
Q904~907	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331
Q908	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q960	VS2SC3331/-1	J	AB	Silicon,NPN,2SC3331

DIODES

D1	VHD1SS133/-1	J	AA	Silicon,1SS133
D81,82	VHD1SS133/-1	J	AA	Silicon,1SS133
D91~93	VHD1SS133/-1	J	AA	Silicon,1SS133
D301~304	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D351~353	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D551	VHD1SS133/-1	J	AA	Silicon,1SS133
D554~556	VHD1SS133/-1	J	AA	Silicon,1SS133
D601~603	VHD1SS133/-1	J	AA	Silicon,1SS133
D701~704	VHD1SS133/-1	J	AA	Silicon,1SS133
D716~723	VHD1SS133/-1	J	AA	Silicon,1SS133
D801	VHDT56B04GM/-1	J	AP	Silicon,TS6B04GM
D802	VHD1SS133/-1	J	AA	Silicon,1SS133
D803~809	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D810~813	VHD1SS133/-1	J	AA	Silicon,1SS133
D815,816	VHD1SS133/-1	J	AA	Silicon,1SS133
D818	VHD1SS133/-1	J	AA	Silicon,1SS133
D820,821	VHD1SS133/-1	J	AA	Silicon,1SS133
D832,833	VHD1SS133/-1	J	AA	Silicon,1SS133
D903,904	VHD1SS133/-1	J	AA	Silicon,1SS133

D906,907	VHD1SS133/-1	J	AA	Silicon,1SS133
D960~962	VHD1SS133/-1	J	AA	Silicon,1SS133
LED701	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED702	VHPSLI342YCB1	J	AC	LED,Orange,SLI342YCB
LED703	VHPSLI342DCB1	J	AC	LED,Yellow,SLI342DCB
LED704	VHPSLI342UCB1	J	AC	LED,Red,SLI342UCB
LED705	VHPSLI342DCB1	J	AC	LED,Yellow,SLI342DCB
LED706	VHPSLI342YCB1	J	AC	LED,Orange,SLI342YCB
LED707~710	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED716,717	VHPSLI342YCB1	J	AC	LED,Yellow,SLI342YCB
LED722	VHPSLI342UCB1	J	AC	LED,Red,SLI342UCB
VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
ZD61	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD352	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD551	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
ZD601,602	VHEMTZJ2R4B-1	J	AB	Zener,2.4V,MTZJ2.4B
ZD801	VHEMTZJ6R2A-1	J	AA	Zener,6.2V,MTZJ6.2A
ZD802	VHEMTZJ300B-1	J	AB	Zener,30V,MTZJ30B

FILTERS

CF302	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF
FE301	RTUNS0008AWZZ	J	AN	FM Front End

TRANSFORMERS

T302	RCILA1064AFZZ	J	AD	AM Tracking
T306	RCILB1074AFZZ	J	AC	AM,OSC
T351	RCILI0011AWZZ	J	AD	AM IF
△ T801	RTRNP0243AWZZ	J	BF	Power
△ T802	RTRNP0239AWZZ	J	AP	Power

COILS

L61	VP-XHR82K0000	J	AC	0.82 μH,Choke
L103	VP-DH101K0000	J	AB	100 μH,Choke
L104	VP-MK331K0000	J	AB	330 μH,Choke
L342	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L351,352	VP-DH101K0000	J	AB	100 μH,Choke
L353	VP-DH102K0000	J	AB	1 mH,Choke
L702	VP-DH101K0000	J	AB	100 μH,Choke

VARIABLE RESISTOR

VR351	RVR-M0026AWZZ	J	AC	10 kohm (B),Semi-VR [FM Mute Level]
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VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	92LCRSTL1764A	J		Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.19 MHz

CAPACITORS

C1	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C2	VCKYTV1HB103K	J	AA	0.01 μF,50V
C3	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C4	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic
C5,6	VCTYPA1CX333K	J	AA	0.033 μF,16V
C7	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic
C8	VCTYPA1CX683K	J	AA	0.068 μF,16V
C9	VCTYPA1CX473K	J	AA	0.047 μF,16V
C10	VCCSTV1HL181J	J	AA	180 pF,50V
C11,12	VCTYPA1CX104K	J	AB	0.1 μF,16V
C13	VCKYTV1HB331K	J	AA	330 pF,50V
C14,15	VCKYTV1HB103K	J	AA	0.01 μF,50V
C16	VCKYTV1HB472K	J	AA	0.0047 μF,50V
C17	VCKYTV1HB102K	J	AA	0.001 μF,50V
C18	VCEAZA1HW474M	J	AB	0.47 μF,50V,Electrolytic
C19	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C20	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C21	VCKYTV1HB332K	J	AA	0.0033 μF,50V
C22	VCCSPA1HL221J	J	AA	220 pF,50V
C23	VCKYTV1HB272K	J	AA	0.0027 μF,50V
C24	VCCSTV1HL2R2C	J	AB	2.2 pF,50V
C25	VCCSTV1HL270J	J	AA	27 pF,50V
C26	VCTYPA1CX333K	J	AA	0.033 μF,16V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C27	VCKYTV1HB102K	J	AA	0.001 μF,50V	C367,368	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C28	VCTYPA1CX104K	J	AB	0.1 μF,16V	C370	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C29	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic	C371,372	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C30	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic	C373,374	VCTYPA1CX333K	J	AA	0.033 μF,16V
C31	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic	C375	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C32	VCKYTV1HB103K	J	AA	0.01 μF,50V	C380	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C33	VCEAZA1HW474M	J	AB	0.47 μF,50V,Electrolytic	C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C34	VCEAZA1HW334M	J	AB	0.33 μF,50V,Electrolytic	C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C35	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C384	VCKYMN1HB102K	J	AA	0.001 μF,50V
C36	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C385	VCTYMN1CY103K	J	AA	0.01 μF,16V
C37	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C386	VCKYMN1HB331K	J	AA	330 pF,50V
C38	VCKYTV1HB103K	J	AA	0.01 μF,50V	C387	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C39,40	VCTYPA1CX473K	J	AA	0.047 μF,16V	C391	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C43	VCEAZA0JW337M	J	AC	330 μF,6.3V,Electrolytic	C392	VCKYMN1HB102K	J	AA	0.001 μF,50V
C44~47	VCCCTV1HH101J	J	AA	100 pF (CH),50V	C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C48	VCCSPA1HL101J	J	AA	100 pF,50V	C394	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C49	VCCCTV1HH101J	J	AA	100 pF (CH),50V	C395	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C50	VCKYTV1EF223Z	J	AA	0.022 μF,25V	C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C51,52	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C397	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C54	VCKYTV1HB102K	J	AA	0.001 μF,50V	C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C55	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C399	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C56	VCKYTV1EF223Z	J	AA	0.022 μF,25V	C551	VCKYMN1HB271K	J	AA	270 pF,50V
C57	VCKYBT1HB102K	J	AA	0.001 μF,50V	C553	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C71,72	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C555,556	VCTYMN1CX682K	J	AA	0.0068 μF,16V
C73,74	VCKYTV1HB221K	J	AA	220 pF,50V	C557	VCKYMN1HB271K	J	AA	270 pF,50V
C75	VCKYTV1HB102K	J	AA	0.001 μF,50V	C559	VCTYMN1CX272K	J	AA	0.0027 μF,16V
C76	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C561~563	VCTYMN1EF223Z	J	AB	0.022 μF,25V
C77	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C566~568	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C82	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C569	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C83	VCTYBT1EF223Z	J	AA	0.022 μF,25V	C601~606	VCEAZA1HW475M	J	AB	4.7 μF,50V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 μF,50V	C611,612	VCTYPA1EX333K	J	AA	0.033 μF,25V
C105	VCKYBT1HB181K	J	AA	180 pF,50V	C613~615	VCFYDA1HA224J	J	AB	0.22 μF,50V,Polyester
C106	VCKYMN1HB181K	J	AA	180 pF,50V	C616	VCCSMN1HL100J	J	AA	10 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 μF,50V	C617	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C109	VCKZPA1HF473Z	J	AA	0.047 μF,50V	C618,619	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V	C620	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C115,116	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C621,622	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 μF,25V	C623~626	VCKYMN1HB102K	J	AA	0.001 μF,50V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V	C627	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C121,122	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C628	VCFYDA1HA224J	J	AB	0.22 μF,50V,Polyester
C127	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C629	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C128	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C630	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C129,130	VCKYMN1HB471K	J	AA	470 pF,50V	C631,632	VCKYMN1HB391K	J	AA	390 pF,50V
C131,132	VCKYMN1HB102K	J	AA	0.001 μF,50V	C634,635	VCKYMN1CX472K	J	AB	0.0047 μF,16V
C133,134	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C650,651	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C135,136	VCTYPA1CX683K	J	AA	0.068 μF,16V	C652	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C139,140	VCTYMN1CX332K	J	AA	0.0033 μF,16V	C702	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C141,142	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C705	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C706	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C707	VCCSMN1HL150J	J	AA	15 pF,50V
C150	VCCPKA2AA392J	J	AB	0.0039 μF,100V,Polypropylene	C708	VCCSMN1HL180J	J	AA	18 pF,50V
C151	VCQYKA1HM273K	J	AB	0.027 μF,50V,Mylar	C709	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C152	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C710	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C711	VCTYMN1CY103N	J	AA	0.01 μF,16V
C154	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic	C712	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C155,156	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C713	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C301	VCKYMN1HB102K	J	AA	0.001 μF,50V	C714	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C321	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic	C715	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C718	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C330	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C719	VCTYMN1EF223Z	J	AA	0.022 μF,25V
C331	VCKYPA1HF473Z	J	AB	0.047 μF,50V	C720	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C332	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C722	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V	C723	VCEAZA1HW104M	J	AB	0.1 μF,50V,Electrolytic
C335	VCCSPA1HL561J	J	AA	560 pF,50V	C801	RC-KZ0001AWZZ	J	AD	0.1 μF,25V
C337	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C802	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C338	VCKYMN1HB102K	J	AA	0.001 μF,50V	C803,804	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C341,342	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C805~808	VCFYHA1HA224J	J	AC	0.22 μF,50V,Thin Film
C343	VCCSMN1HL330J	J	AA	33 pF,50V	C809	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C345~347	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C810	VCEAZA1EW477M	J	AD	470 μF,25V,Electrolytic
C350,351	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C811~813	VCEAZA1HW227M	J	AC	220 μF,50V,Electrolytic
C352	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C814	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C815	VCEAZA0JW108M	J	AC	1000 μF,6.3V,Electrolytic
C355	VCCSMN1HL220J	J	AA	22 pF,50V	C821	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C356	VCKYMN1HB102K	J	AA	0.001 μF,50V	C824	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C357	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C825	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C826	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C827,828	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C362	VCEAZA1EW335M	J	AB	3.3 μF,25V,Electrolytic	C829	VCEAZW1EW338M	J	AG	3300 μF,25V
C363	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C830,831	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C364	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C832,833	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C365	VCTYPA1CX223K	J	AA	0.022 μF,16V	C901	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C366	VCKYMN1HB102K	J	AA	0.001 μF,50V	C902	VCCSPA1HL221J	J	AA	220 pF,50V

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C903	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C904	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C905	VCCSPA1HL221J	J	AA	220 pF,50V
C907	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C909,910	VCEAZW1HW228M	J	AH	2200 μF,50V,Electrolytic
C911,912	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C915	VCCSPA1HL470J	J	AA	47 pF,50V
C916	VCCSPA1HL150J	J	AA	15 pF,50V
C917,918	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C920,921	VCKZPA1HF223Z	J	AA	0.022 μF,50V
C923	VCCSPA1HL470J	J	AA	47 pF,50V
C924	VCCSPA1HL150J	J	AA	15 pF,50V
C936,937	VCCQKA1HM104K	J	AB	0.1 μF,50V,Mylar
C938	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C950-953	VCKYPA1HB102K	J	AA	0.001 μF,50V
C954	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C956	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C960	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C961	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R1	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R2	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R8	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R9	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R10	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R11	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R12	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R13	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R14	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R15	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R16	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R17	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R18	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R19	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R20	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R21	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R22	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R23	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R24	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R25	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R26	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R27	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R28	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R29	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R30	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R31	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R32	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R33	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R34	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R35,36	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R37	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R38	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R39	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R40	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R41,42	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R43	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R44	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R45	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R46	VRS-TV2AB561J	J	AA	560 ohms,1/10W
R47	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R50	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R51	VRD-ST2CD335J	J	AA	3.3 Mohms,1/6W
R52	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R53	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R55	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R56	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R57	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R58-60	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R61-63	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R64	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R65	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R66	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R71,72	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R73,74	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R80,81	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R82,83	VRS-TV2AB391J	J	AA	390 ohms,1/10W
R84	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R88,89	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W

	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R91	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R93	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R101	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111,112	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131,132	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R137	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R139,140	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R141,142	VRD-MN2BD560J	J	AA	56 ohms,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R155	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R156,157	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R167	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R168	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R169	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R170	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R171,172	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R173	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R174	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R175	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R336	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R344	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R345	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R350	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R354	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R363,364	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R365,366	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R367	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R368	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R369	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R371-374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2EE680J	J	AA	68 ohms,1/4W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R378	VRD-MN2BD823J	J	AA	82 kohms,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383-385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R387	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R391,392	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R393	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R395	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R398	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R551	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R553	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R555	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R556	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R558	VRD-ST2CD683J	J	AA	68 kohms,1/6W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R560	VRD-ST2CD474J	J	AA	470 kohms,1/6W	R832	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R561	VRD-ST2CD153J	J	AA	15 kohms,1/6W	R837	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R562	VRD-MN2BD394J	J	AA	390 kohms,1/8W	R901	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R564	VRD-MN2BD394J	J	AA	390 kohms,1/8W	R902	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R566	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W	R903	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R567	VRD-MN2BD274J	J	AA	270 kohms,1/8W	R904	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R568	VRD-MN2BD224J	J	AA	220 kohms,1/8W	R905	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R570	VRD-MN2BD224J	J	AA	220 kohms,1/8W	R907	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R572	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W	△ R912,913	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R573	VRD-MN2BD564J	J	AA	560 kohms,1/8W	R916	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R574,575	VRD-ST2EE331J	J	AA	330 ohms,1/4W	R917	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R578~580	VRD-MN2BD104J	J	AA	100 kohm,1/8W	R918	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R601	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W	R921	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R602	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W	R922	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R603~605	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W	R923	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R606~608	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W	R924	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R609	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	R925,926	VRN-VV3AAR10J	J		0.1 ohm,1W
R610	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R928,929	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R611	VRD-ST2CD331J	J	AA	330 ohms,1/6W	R930,931	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R612	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R934	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R613	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R936	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R614	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R937	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R615,616	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W	R938,939	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R617~620	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W	R941,942	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R621,622	VRD-MN2BD103J	J	AA	10 kohm,1/8W	R946	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R623	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R949	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R624	VRD-MN2BD331J	J	AA	330 ohms,1/8W	R960	VRD-RT2HD220J	J	AA	22 ohms,1/2W
R625	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R961	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R626	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W	R962	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R628	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R963	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R629,630	VRD-RT2HD331J	J	AA	330 ohms,1/2W	R966	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R631~634	VRD-MN2BD223J	J	AA	22 kohms,1/8W	R967	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R635,636	VRD-ST2CD331J	J	AA	330 ohms,1/6W	RD01	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R637,638	VRD-MN2BD224J	J	AA	220 kohms,1/8W	RD02	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R639~642	VRD-MN2BD473J	J	AA	47 kohms,1/8W	RD03	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R645,646	VRD-ST2CD104J	J	AA	100 kohm,1/6W	RD04	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R650,651	VRD-ST2CD681J	J	AA	680 ohms,1/6W	RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R652,653	VRD-ST2CD224J	J	AA	220 kohms,1/6W	RD06	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R654,655	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W	RD07	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R656	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RD09	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R701,702	VRD-MN2BD102J	J	AA	1 kohm,1/8W	RD10	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R703	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RD11	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R705~708	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RD12	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R709	VRD-MN2BD102J	J	AA	1 kohm,1/8W	RD13	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R711	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W	RD14	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R712~715	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RD15	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R716	VRD-ST2CD330J	J	AA	33 ohms,1/6W	RD16	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R717	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RD21	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R719,720	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RD22	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R721~723	VRD-MN2BD104J	J	AA	100 kohm,1/8W	RD23	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R724	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RD24	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R726,727	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RD25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R730~732	VRD-MN2BD102J	J	AA	1 kohm,1/8W	RD26	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R733,734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	RD27	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R735	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W	RD28	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R736,737	VRD-MN2BD102J	J	AA	1 kohm,1/8W	RS701~703	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R738	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RS704,705	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R739	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RS706	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R740~744	VRD-MN2BD102J	J	AA	1 kohm,1/8W	RS707	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R745	VRD-ST2CD102J	J	AA	1 kohm,1/6W	RS708~710	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R747,748	VRD-ST2CD103J	J	AA	10 kohm,1/6W	RS711	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R749,750	VRD-MN2BD103J	J	AA	10 kohm,1/8W	RS712	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R751	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W					
R752~754	VRD-ST2CD103J	J	AA	10 kohm,1/6W					
R755~757	VRD-MN2BD103J	J	AA	10 kohm,1/8W					
R758	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W					
R759,760	VRD-MN2BD103J	J	AA	10 kohm,1/8W					
R761~772	VRD-ST2CD102J	J	AA	1 kohm,1/6W					
R774~778	VRD-ST2CD102J	J	AA	1 kohm,1/6W					
R780	VRD-ST2CD103J	J	AA	10 kohm,1/6W					
R786,787	VRD-ST2CD102J	J	AA	1 kohm,1/6W					
R795	VRD-MN2BD473J	J	AA	47 kohms,1/8W					
R797	VRD-MN2BD104J	J	AA	100 kohm,1/8W					
R798	VRD-ST2CD101J	J	AA	100 ohm,1/6W					
R801	VRD-ST2CD123J	J	AA	12 kohms,1/6W					
R802	VRD-ST2EE470J	J	AA	47 ohms,1/4W					
R803	VRD-ST2CD473J	J	AA	47 kohms,1/6W					
R806	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W					
R808	VRD-ST2CD221J	J	AA	220 ohms,1/6W					
R825	VRD-ST2CD330J	J	AA	33 ohms,1/6W					
R827	VRD-ST2CD223J	J	AA	22 kohms,1/6W					
R830	VRS-VV3LA821J	J	AB	820 ohms,3W					

OTHER CIRCUITRY PARTS

BI99/CNS99	QCWNW1382AWZZ	J	AF	Connector Ass'y,3/3Pin
BI601/CNS11	QCWNW1380AWZZ	J	AF	Connector Ass'y,6/6Pin
BI701/CNSM1	QCWNW1386AWZZ	J	AG	Connector Ass'y,8/12Pin
BI702/CNS12	QCWNW1381AWZZ	J	AL	Connector Ass'y,15/15Pin
BI703/CN806	QCWNW1391AWZZ	J	AF	Connector Ass'y,4/4Pin
BIM5/CNS10/CNS5	QCWNW1184AWZZ	J	AL	Connector Ass'y,6/10/2Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP10	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNP11	QCNCM704FAWZZ	J	AC	Plug,6Pin
CNP12	QCNCM704QAWZZ	J	AG	Plug,15Pin
CNP101	92LCONE3P53253	J	AB	Plug,3Pin
CNP102	92LCONE7P53253	J	AC	Plug,7Pin
CNP301	92LCONE3P5268	J	AC	Plug,3Pin
CNP303	QCNCW010JAWZZ	J		Plug,6Pin

CD-C831W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CNP701	QCNCWZG22AWZZ	J	AE	Socket,22Pin
CNP801	QCNCM042EAWZZ	J	AB	Plug,5Pin
CNP802	QCNCM035HAWZZ	J	AB	Plug,8Pin
CNP804	92LCONE2P53253	J	AB	Plug,2Pin
CNP806	QCNCM705DAFZZ	J	AB	Plug,4Pin
CNPM1	QCNCM932MAFZZ	J	AE	Plug,12Pin
CNPM2	QCNCM030BAWZZ	J	AB	Pin Holder
CNS1A/B	QCNCWN1181AWZZ	J	AK	Connector Ass'y,5/5Pin
CNS2A/B	QCNCWN1182AWZZ	J	AH	Connector Ass'y,8/8Pin
CNS3A/B	QCNCWN1183AWZZ	J	AG	Connector Ass'y,6/6Pin
CNS101	QCNCWN1384AWZZ	J	AL	Connector Ass'y,3Pin
CNS102	QCNCWN1385AWZZ	J	AG	Connector Ass'y,7Pin
CNS303	QCNCM010JAWZZ	J	J	Connector Ass'y,9Pin
CNS701	QCNCWZF22AWZZ	J	AE	Socket,22Pin
CNS804	QCNCWN1389AWZZ	J	AC	Connector Ass'y,2Pin
△ F802,803	92LFUSE-T402E	J	AD	Fuse,T4.0A L 250V
△ F805	92LFUSE-T202E	J	AD	Fuse,T2.0A L 250V
△ F832	92LFUSE7501E	J	AD	Fuse,T500mA L 250V
FFC701	QCNCWN1467AWZZ	J	AG	Flat Cable,22Pin
FL701	VVKBJ685GNK-1	J	AV	FL Display
FW702	QCNCWN1387AWZZ	J	AF	Flat Wire,8Pin
FW801	QCNCWN1388AWZZ	J	AD	Flat Wire,5Pin
FWM1	QCNCWN1274AWZZ	J	AC	Flat Wire,2Pin
FWM2	QCNCWN0338AWZZ	J	AD	Flat Wire,2Pin
IC99	VHPGP1F32T/-1	J	AP	Optical Fiber Data Link,GP1F32T
JK601	QSOCJ0213AWZZ	J	AE	Jack,Video In
JK970	QJAKM0010AWZZ	J	AF	Jack,Headphones
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J	AK	Motor,Air Cooling Fan
MM1(204-7)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
PHM1	VHPI31535CD-1	J	AG	Photo Interrupter
RL801	RRLYD0001SJZZ	J	AQ	Relay
RL901	RRLYD0004AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO301B	QTANC0301AWZZ	J	AH	Terminal,Antenna
△ SO801	QSOCA0209AWZZ	J	AH	Socket,AC Input
SO901	QTANA0803AWZZ	J	AH	Terminal,Speaker
SOLM1(204-8)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
SOLM2	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [CD]
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf/Skeleton Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW601	QSW-S0024AWZZ	J	AE	Switch,Slide Type [Span Selector]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [ON/STAND-BY]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER/SLEEP]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOSE]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [REV]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [REC PAUSE]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [TUNER/BAND]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [FF]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING UP]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING DOWN]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY]
SW726	92LSWICH1401AT	J	AC	Switch,Key Type [VOLUME DOWN]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [VOLUME UP]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS/DEMO]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [EQUALIZER]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
△ SW801	QSOCE0008AWZZ	J	AH	Switch,Slide Type [Voltage Selector]
SWM3(204-9)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
SWM4(204-10)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
SWM5(204-11)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
WTM801	QCNCW012EAWZZ	J	AC	Plug,5Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
△ 306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306- 1	—	—	—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XHBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J	AM	CD Player Base
202	GCAB-1052AWSA	J	AP	Top Cabinet
203	GITAR4050AWSA	J	AK	Back Board
204	92LMEC2744AS1	J	BK	Tape Mechanism Ass'y
204- 1	NBLTK0011AWZZ	J	AC	Belt,Main,Tape 1
204- 2	NBLTK0012AWZZ	J	AB	Belt,Main,Tape 2
204- 3	NBLTK0030AWZZ	J	AC	Belt,Sub
204- 4	NROLY0002AWZZ	J	AF	Pinch Roller Ass'y
204- 5	RHEDA0001AWZZ	J	AG	Head,Erase
204- 6	92LMRPH1746A	J	AM	Head,Record/Playback [Tape 1/Tape 2]
204- 7(MM1)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
204- 8(SOLM1)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
204- 9(SWM3)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
204-10(SWM4)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
204-11(SWM5)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
205	LANGK0163AWFW	J	AB	Bracket,Fan Support
206	LCHSM0082AWFW	J	AP	Main Chassis
207	LANGF0032AWZZ	J	AC	Support,T/T Lock Lever
208	PCUSG0022AWZZ	J	AB	Cushion,Leg
209	PRDAR0130AWFW	J	AM	Heat Sink,Main
210	LCHSZ0010AWZZ	J	AM	Chassis,Loading
211	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
212	PRDAR0127AWFW	J	AM	Heat Sink,Sub
213	LHLDZ1140AWZZ	J	AB	Guide
214	LHLDZ1141AWZZ	J	AB	Support,Pitch
215	LHLDZ1213AWZZ	J	AE	Holder,FL
216	MLEVP0066AWZZ	J	AE	Lever,Shift
217	MLEVP0067AWZZ	J	AC	Lever,Lock
218	MLEVP0068AWZZ	J	AB	Lever,Change
219	MLEVP0070AWZZ	J	AB	Lever,T/T Lock
221	MSPRC0020AWFJ	J	AB	Spring,T/T Lock Lever
222	MSPRC0024AWFW	J	AB	Spring,Solenoid
223	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
224	92LMEC3022CTS1	J	AM	Cassette Holder Ass'y,Tape 1
224- 1	—	—	—	Cassette Holder,Tape 1 (Not Replacement Item)
224- 2	GCOVA1221AWSA	J	AH	Cover,Cassette,Tape 1
224- 3	HDECQ0408AWSA	J	AD	Panel,Cassette,Tape 1
225	92LMEC3022CTS2	J	AM	Cassette Holder Ass'y,Tape 2
225- 1	—	—	—	Cassette Holder,Tape 2 (Not Replacement Item)
225- 2	GCOVA1222AWSA	J	AH	Cover,Cassette,Tape 2
225- 3	HDECQ0409AWSA	J	AD	Panel,Cassette,Tape 2
226	NBLTK0033AWZZ	J	AC	Belt,Drive
227	LHLDZ1228AWZZ	J	AC	Holder,LED,A
228	NGERH0064AWZZ	J	AD	Gear,Cam
229	NGERH0065AWZZ	J	AB	Gear,Turtable
230	NGERK0003AWZZ	J	AC	Gear,Drive
231	NGERK0004AWZZ	J	AB	Gear,Bevel
232	NGERK0005AWZZ	J	AB	Gear,Loading
233	92LN-BAND1318A	J	AA	Nylon Band,80mm

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
234	NGERW0006AWZZ	J AC	Gear,Worm Wheel
235	NPLYD0002AWZZ	J AC	Pulley
236	NROLP0009AWZZ	J AB	Roller
237	NTNT-0018AWSA	J AK	Turntable
238	PCUSG0022AWZZ	J AB	Cushion,Leg
239	LHLDZ1229AWZZ	J AC	Holder,LED,B
△ 240	QFSDH0001AWZZ	J AB	Holder,Fuse
241	QLUGP0001AWZZ	J AC	Lug
243	LANGK0170AWFW	J AC	Bracket,Headphones Support
244	92LCAB3073AS1	J	Front Panel Ass'y
244- 1	—	—	Front Panel (Not Replacement Item)
244- 2	HDECQ0484AWSA	J	Panel,AMP.
244- 3	HDECQ0411AWSA	J AE	Volume Ring
244- 4	HDECQ0412AWSA	J AC	Operation Ring,A
244- 5	HDECQ0413AWSB	J AB	Operation Ring,B
244- 6	HDECQ0414AWSA	J AD	Center Cap,Operation
244- 7	HDECQ0415AWSA	J AD	Cover,LED
244- 8	HDECQ0417AWSA	J AE	Panel,Center Cap
244- 9	HDECQ0418AWSB	J AH	Decoration Panel
244-10	HDECQ0419AWSA	J AF	Decoration,Play Knob
244-11	HDECQ0420AWSA	J AE	Decoration,Stop Knob
244-12	HDECQ0457AWSA	J AC	Decoration Panel,Play
244-13	HDECQ0458AWSA	J AC	Decoration Panel,Stop
244-14	JKNBZ0557AWSB	J AD	Knob,Disc No.
244-15	JKNBZ0558AWSA	J AE	Knob,Open/Close/Disc Skip
244-16	JKNBZ0628AWSA	J AE	Knob,ON/Stand-by
244-17	JKNBZ0560AWSA	J AE	Knob,X-BASS
244-18	JKNBZ0561AWSA	J AF	Knob,Operation
244-19	JKNBZ0563AWSB	J AG	Knob,FF/REW/Tuning
244-20	JKNBZ0565AWSA	J AD	Knob,Timer/Sleep/Clock
244-21	JKNBZ0567AWSA	J AF	Knob,Volume
244-22	JKNBZ0570AWSA	J AD	Knob,Dimmer/Equalizer
244-23	GCOVA1240AWZZ	J AC	Reflector
245	LANGT0056AWFW	J AE	Bracket,Tuner PWB (A)
246	LANGT0057AWFW	J AE	Bracket,Tuner PWB (B)
249	92LCAB3022BS1	J AL	Side Panel Ass'y,Left
249- 1	—	—	Side Panel,Left (Not Replacement Item)
249- 2	PCUSG0022AWZZ	J AB	Cushion,Leg
250	92LCAB3022CS1	J AL	Side Panel Ass'y,Right
250- 1	—	—	Side Panel,Right (Not Replacement Item)
250- 2	PCUSG0022AWZZ	J AB	Cushion,Leg
251	92LCOV3022AS1	J AM	CD Tray Cover Ass'y
251- 1	—	—	Cover,CD Tray (Not Replacement Item)
251- 2	92LBADGE1671A	J AC	Badge,SHARP
251- 3	GCOVA1224AWSA	J AE	Cover,CD Tray Panel,Left
251- 4	GCOVA1225AWSA	J AE	Cover,CD Tray Panel,Right
254	PCOVZ1013AWZZ	J AB	Cover,Wire
255	92LHOLD3022AS1	J AB	Stabilizer Ass'y
255- 1	—	—	Stabilizer (Not Replacement Item)
255- 2	PMAGF0001AWZZ	J AF	Magnet
255- 3	92LSUPT1749D	J AA	Bracket,Magnet
256	LHLDZ1204AWSA	J AD	Bracket,Stabilizer
257	92LCSPR1431C	J AA	Ring,Spring
258	MLIFP0006AWZZ	J AE	Damper
259	MSPRD0092AWFJ	J AB	Spring,Cassette,Tape 1
260	MSPRD0093AWFJ	J AB	Spring,Cassette,Tape 2
261	92LCAUT1706A1	J AC	Label,Class 3
262	92LCAUT1706B	J AA	Label,Laser
263	NFANP0001AWZZ	J AD	Rotary Fan
264	LANGT0047AWFW	J AE	Bracket,PWB Support
601	LX-EZ0005AWFD	J AA	Screw,Special
602	XJBSF30P10000	J AA	Screw,ø3×8mm
603	LX-JZ0002AWFD	J AA	Screw,ø3×10mm
604	XESSD30P10000	J AA	Screw,ø3×10mm
605	XJBSD30P14000	J AA	Screw,ø3×14mm
606	XJBSD30P10000	J AA	Screw,ø3×10mm
607	LX-TZ0019AFZZ	J AB	Screw,Special
609	XBPSD26P05JSO	J AB	Screw,ø2.6×5mm
610	XEBSD26P12000	J AA	Screw,ø2.6×12mm
611	XEBSD30P10000	J AA	Screw,ø3×10mm
612	XEBSD30P12000	J AA	Screw,ø3×12mm
613	LX-JZ0010AFFD	J AA	Screw,ø3×10mm
614	LX-HZ0082AFZZ	J AA	Screw,ø4×8mm
615	XBBSD20P04000	J AA	Screw,ø2×4mm
616	XJSBD30P08000	J AA	Screw,ø3×10mm
617	XEBSF30P12000	J AA	Screw,ø3×12mm
620	XJSSF30P10000	J AA	Screw,ø3×10mm

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
621	XWHJZ62-09510	J AB	Washer,ø6.2×ø10×0.9mm
622	LX-JZ0003AWFF	J AA	Screw,Special

PACKING PARTS

SPAKA0203AWZZ	J AH	Packing Add.,Unit
SPAKC0778AWZZ	J AT	Packing Case
SPAKC0779AWZZ	J AT	Packing Case
SPAKP0013AWZZ	J AC	Polyethylene Bag,Unit
TCAUA0032AWZZ	J AB	Label,Caution
TGANE0009AW15	J	Warranty Card [For Philippines]
TGANZ0022AW17	J AE	Warranty Card [For Taiwan]
TLABG0006AWZZ	J AB	Label,Caution
TLABG0007AWZZ	J AC	Label,Set
TLABS0215AWZZ	J AB	Label,Safety [For Hong Kong]
TLABZ0605AWZZ	J AB	Label,Saving Energy
TSPC-0554AWZZ	J AC	Label,Specifications
TSPC-0555AWZZ	J AD	Label,Specifications
TSPC-0556AWZZ	J AC	Label,Specifications
92LBAG1460C1	J AB	Polyethylene Bag,Operation Manual
92L16-01-0002	J AF	Polyethylene Bag,Surround Speaker
92L17-01-0001	J AN	Packing Add.,Surround Speaker
92L411-0108	J AC	Polyethylene Bag,Front Speaker
92L412-0125	J AN	Packing Add.,Front Speaker

ACCESSORIES

△ QACCB0008AW00	J AW	AC Power Supply Cord [For Hong Kong]
△ QACCE0011AW00	J AM	AC Power Supply Cord [Except for Australia/New Zealand]
△ QACCL0002AW00	J AN	AC Power Supply Cord [For Australia/New Zealand]
QANTL0009AWZZ	J AH	AM Loop Antenna
TINST0049AWZZ	J AG	Operation Manual [For Thailand]
TINSZ0432AWZZ	J AM	Operation Manual [Except for Thailand/Australia/New Zealand]
TINSZ0433AWZZ	J AD	Operation Manual [For Australia/New Zealand]
TLABE0317AWZZ	J AB	Label,Bar Code [Except for Middle East]
TLABE0318AWZZ	J AC	Label,Bar Code [Middle East]
TLABZ0562AWZZ	J AC	Feature Label,Tape 1
TLABZ0563AWZZ	J AD	Feature Label,Tape 2
△ 92LCORDZ1652A	J AM	AC Power Supply Cord [For Taiwan]
△ 92LCORD577B	J AM	AC Power Supply Cord [For Saudi Arabia]
△ 92LFANT1746A	J AD	FM Antenna
△ 92LPLUG027	J AD	AC Plug Adaptor [For Saudi Arabia]
△ 92LPLUG155A	J AG	AC Plug Adaptor [For Brasil/Philippines/Central South America/Mexico]
RRMCG0178AWSA	J AS	Remote Control
GFTAB1022AWSA	J	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~6	92LPWB3073MANS	J —	Main/Power/Display/Switch/Headphone (Combined Ass'y)
PWB-B	92LPWB3022CDUS	J —	CD Servo
PWB-C	92LPWB3073TUNS	J —	Tuner PWB
PWB-D	QPWBF0027AWZZ	J AD	CD Motor (PWB Only)
PWB-E	QPWBF0341AWZZ	J AB	Sensor (PWB Only)
PWB-F	QPWBF0106AWZZ	J AF	Tape Mechanism (PWB Only)

OTHER SERVICE PART

UDSKA0004AFZZ	J AZ	CD Pickup Lens Cleaner
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CP-C831

SPEAKER BOX PARTS (FRONT SPEAKER)

901	92L051-0069	J AX	Speaker Box Ass'y
902	92L312-0075	J AT	Front Panel

CD-C831W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
903	92L121-0162	J	AU	Net Frame Ass'y
904	92L122-0042	J	AG	Speaker Wire Ass'y with Capacitor
905	92L291-0079	J	AG	Speaker Cord
906	92L316-0068	J		Duct Pipe
907	92L394-0045	J	AC	Port Cushion
908	92L394-0049	J	AB	Cushion Wire
909	92L351-0331	J	AC	Label, Specifications
910	92L372-0106	J	AB	Screw, $\phi 4 \times 12$ mm
911	92L372-0108	J	AC	Screw, $\phi 3 \times 10$ mm
SP1,2	VSP0013WB376A	J	AY	Speaker, Woofer
SP3,4	VSP0050TBM16A	J	AR	Speaker, Tweeter

GBOXS0025AWM1

SPEAKER BOX PARTS (SURROUND SPEAKER)

901	92L03-02-0005	J	AQ	Bottom Cabinet
902	92L02-02-0001	J	AR	Net Frame Ass'y
903	92L15-01-0005	J		Label, Parts Code
904	92L06-01-0001	J	AK	Speaker Cord
905	92L09-01-0001	J	AC	Screw, $\phi 3 \times 14$ mm
SP1,2	VSP0010PBX8WA	J	AS	Speaker, Full-range

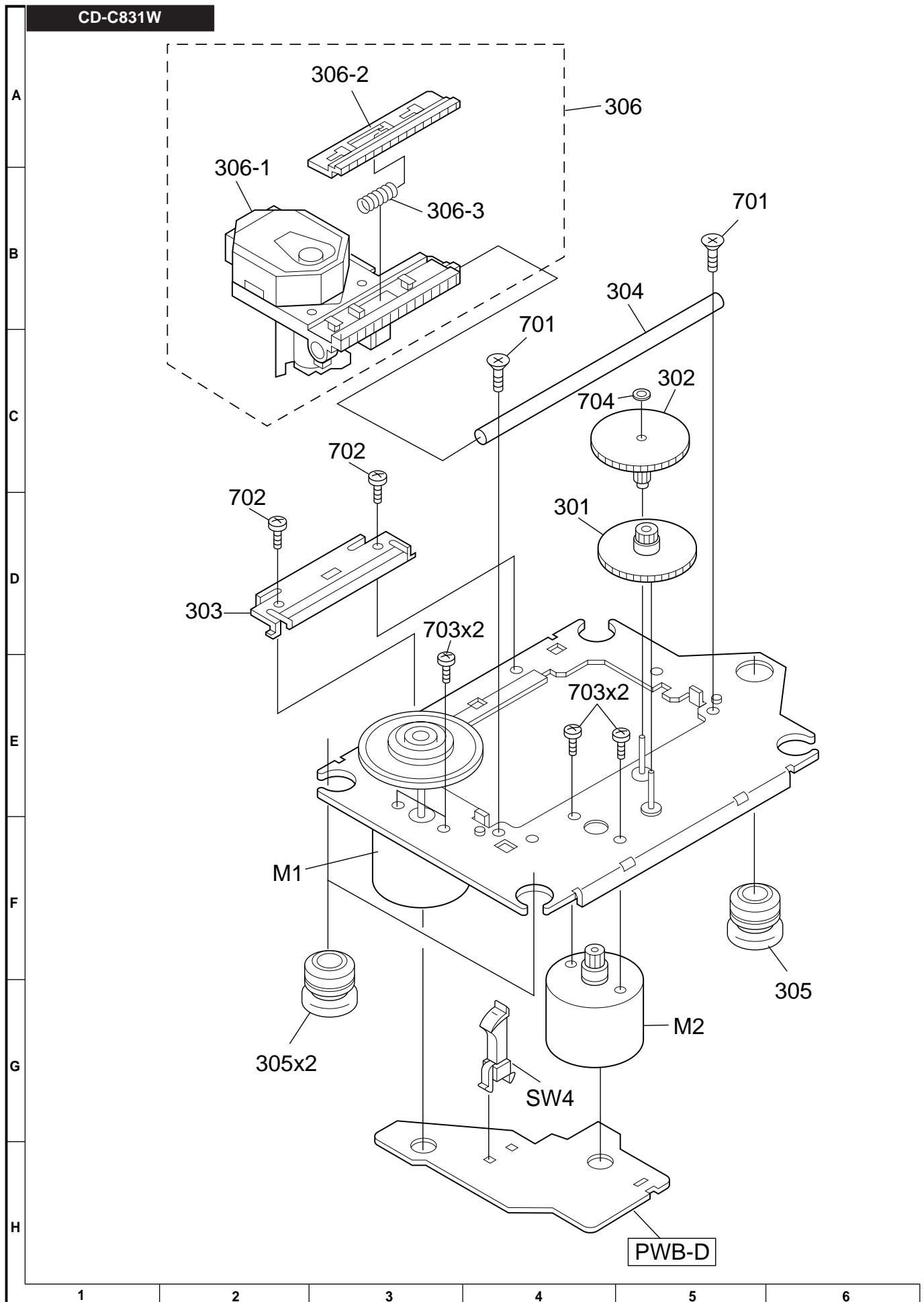


Figure 8 CD MECHANISM EXPLODED VIEW



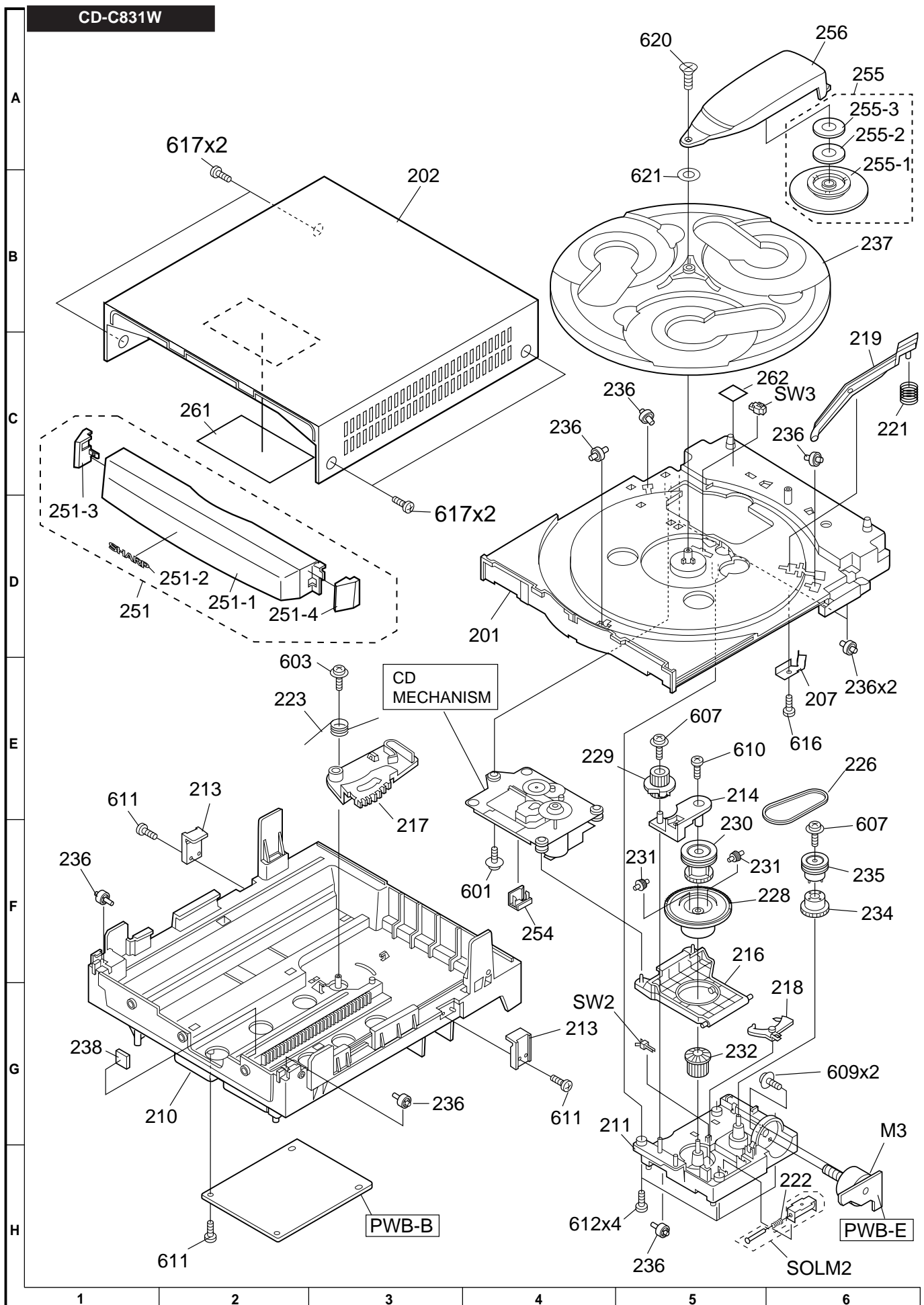


Figure 10 CABINET EXPLODED VIEW (2/2)

CP-C831

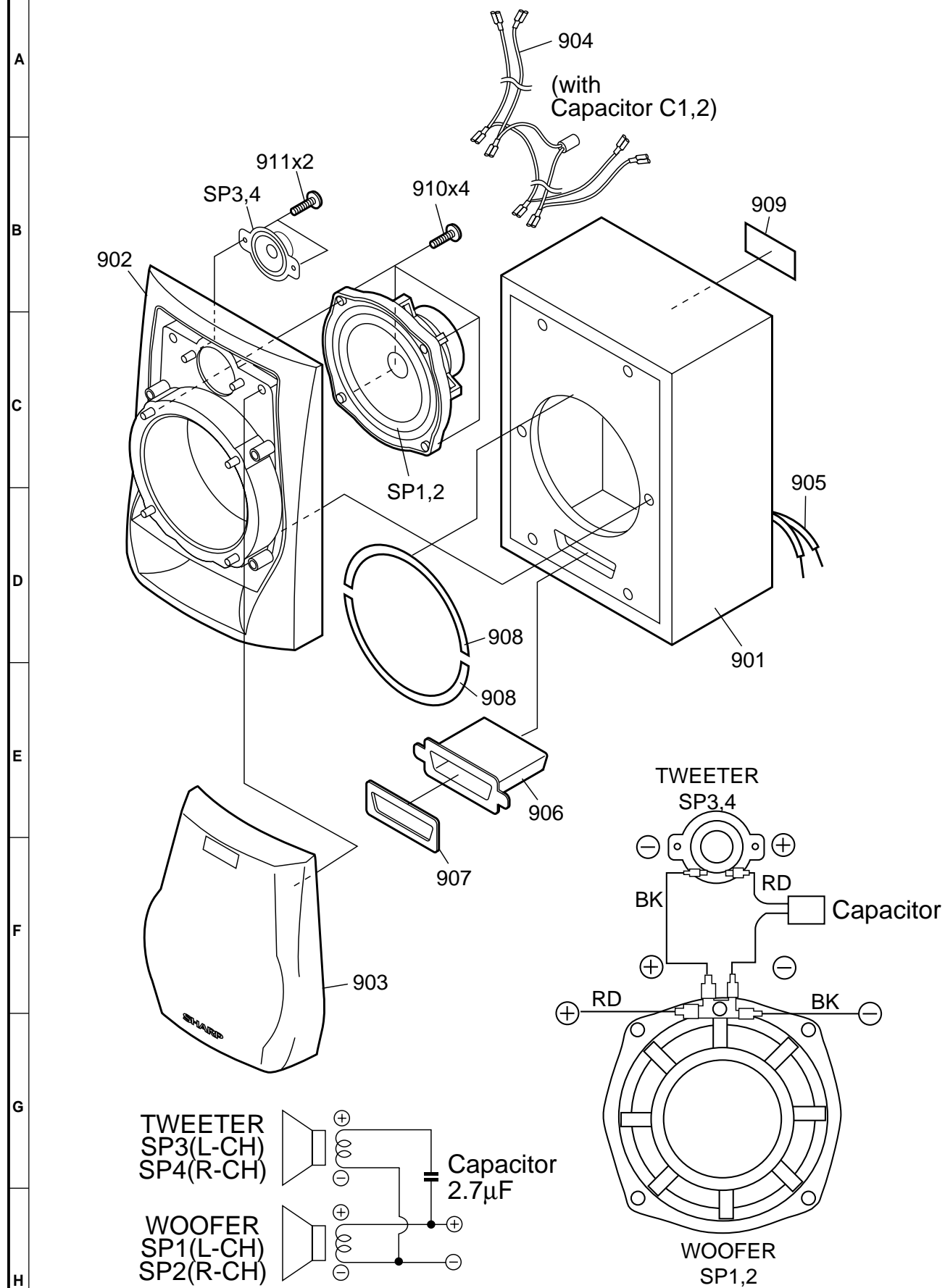


Figure 11 SPEAKER EXPLODED VIEW (1/2)

GBOXS0025AWM1

A

B

C

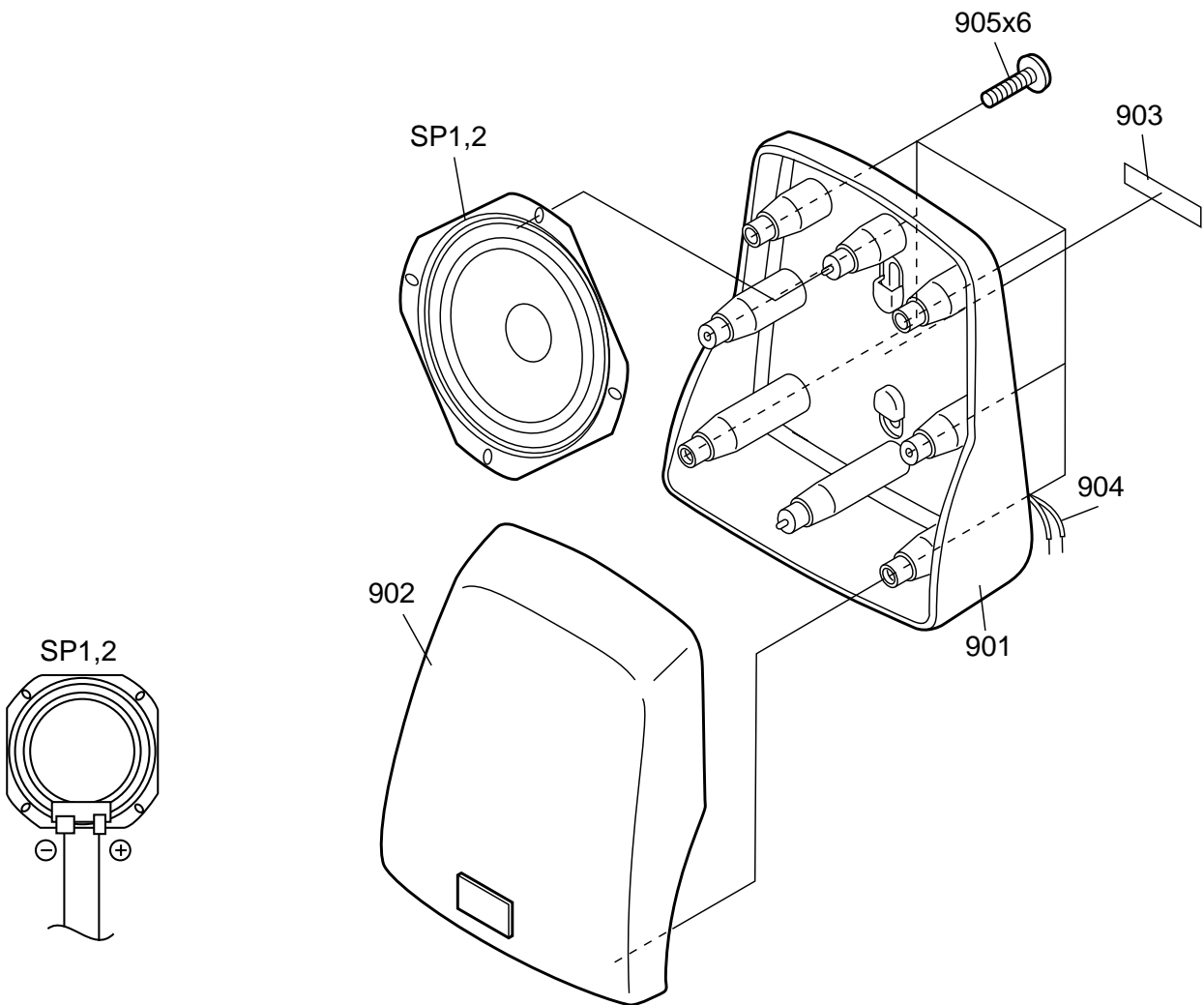
D

E

F

G

H



1

2

3

4

5

6

Figure 12 SPEAKER EXPLODED VIEW (2/2)

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